

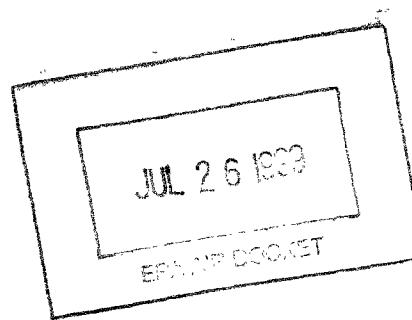


ALPHA-GAMMA
TECHNOLOGIES, INC.

A-95-35

II-B-7

March 21, 1996



Ms. Emily Bowles
Radian Corporation
P.O. Box 13000
Research Triangle Park, NC 27709

Dear Emily:

Attached is a copy of the memorandum, "HAP Emissions Data for IC Engines." This work has been conducted under contract No. 68-D1-0117, Work Assignment 167.

If you have any questions, you can contact me or Reese Howle at 954-0033.

Sincerely,

Brahim Richani, Ph.D.
Mechanical Engineer

Attachments

cc: Anwar Shareef, Alpha-Gamma
Reese Howle, Alpha-Gamma
Amanda Agnew, EPA/OAQPS/ESD



ALPHA-GAMMA

TECHNOLOGIES, INC.

MEMORANDUM:

DATE: March 21, 1996

SUBJECT: HAP Emission Data for IC Engines

FROM: Brahim Richani
Alpha-Gamma Technologies, Inc.

TO: Reciprocating IC Engines NESHAP and NSPS Project File

This memorandum presents a summary of Hazardous Air Pollutants (HAPs) emissions data gathered for reciprocating internal combustion engines (RICE). The data presented in this memorandum were developed from 28 test reports gathered for RICE. These reports are listed in the Reference section, and the report reference number is used as the test identification number (ID).

Alpha-Gamma developed a Microsoft Access database for the gathered data. The database includes the measured emissions concentrations and all other parameters necessary to calculate emission rates and factors. The database also includes physical and operational parameters which may affect HAP emissions. A total of 1088 records are included in the database. Each record contains information from up to three test runs for an identified HAP.

HAP emissions data summaries are presented in Attachments 1 through 3 based on the fuel type. Emissions data for natural gas-fired RICE are presented in Attachment 1, diesel-fired RICE are presented in Attachment 2, and digester gas-fired RICE are presented in Attachment 3. Emission concentrations are presented in units of parts per billion (ppb) for gaseous HAP and micrograms per dry standard cubic feet ($\mu\text{g/dscf}$) for particulate HAP. Emission rates are presented in units of pound per hour (lb/hr) and emission factors are presented in units of pounds per million Btu heat input (lb/MMBtu) and pounds per horsepower-hour power output (lb/hp-hr).

For the purpose of this memorandum, only average emissions concentrations and factors are presented in Attachments 1 through 3. Individual test runs emissions are available in the database, and were previously provided in two memorandums submitted to the Project Files. Detailed emissions concentrations are referenced in the February 6, 1996, memorandum, and detailed emission factors are referenced in the March 7, 1996, memorandum.

Unreported emissions are presented as "NR." Unreported emissions are the result of missing parameters such as pollutant concentration, fuel type, engine type and size, stack exhaust flowrate, or fuel consumption levels. Typically, each test consisted of

three test runs. For the tests where at least one run (but not all runs) revealed an undetected concentration, a "<" sign precedes the calculated emission rates and factors. In cases where the pollutant was not detected in all test runs, the emission concentrations are presented as "ND", and a "<<" sign precedes the calculated emission rates and factors. All emission rates and factors corresponding to undetected concentrations are calculated based on the reported pollutant detection limit.

The emission factors and rates were determined using EPA recommended calculations. Emissions factors in lb/MMBtu were determined according to EPA Method 19 referenced in 40 CFR part 60, Appendix A. These factors are based on the measured pollutant concentration, fuel factor, and stack oxygen levels. Emission rates in lb/hr were determined using standard engineering calculations and are based on the measured pollutant concentration, exhaust stack flow rate, and the exhaust temperature. Emission factors in lb/HP-hr were based on the calculated emission rates (lb/hr), engine rating (HP), and load conditions. In cases where the fuel factor was not provided, Alpha-Gamma used the fuel factors provided in 40 CFR 60. It should be noted that the 40 CFR 60 fuel factors are within 3 percent of the average reported fuel factors for natural gas, and within 2 percent of the average reported fuel factors for diesel fuel.

Emissions factors were calculated according to Equations 1 through 5 below. For gaseous HAPs, Equations 1 and 2 were used to calculate emission rates in lb/hr and emission factors in lb/MMBtu, respectively. For particulate HAPs, Equations 3 and 4 were used to calculate emission rates in lb/hr and emission factors in lb/MMBtu, respectively. Equation 5 was used to calculate emission factors in lb/HP-hr for both gaseous and particulate HAPs. Load conditions are incorporated into Equation 5 to account for engine output power.

Equation 1: Emission Rate in (lb/hr) for gaseous HAPs:

$$ER \left(\frac{lb}{hr} \right) = \frac{1.369 \times 10^{-9} \left(\frac{lb-mol}{ft^3} \right) \times 60 \left(\frac{min}{hr} \right) \times Q_{stk} \left(\frac{dscf}{min} \right) \times C (ppb) \times M \left(\frac{lb}{lb-mol} \right)}{(T_{stk} + 460)^\circ R}$$

where: ER = Emission rate (lb/hr)
 Q_{stk} = Stack gas flow rate (dscf/min)
 C = Measured concentration (ppb)
 M = HAP molecular weight (lb/lb-mol)
 T_{stk} = Stack temperature (°F)

Equation 2: Emission Factor in (lb/MMBtu) for gaseous HAPs:

$$EF_F \left(\frac{\text{lb}}{\text{MMBtu}} \right) = \frac{1.369 \times 10^{-9} \left(\frac{\text{lb-mol}^{\circ}\text{R}}{\text{ft}^3} \right) \times F_F \left(\frac{\text{dscf}}{\text{MMBtu}} \right) \times C (\text{ppb}) \times M \left(\frac{\text{lb}}{\text{lb-mol}} \right) \times \frac{20.9}{20.9 - \% O_2}}{(T_{std} + 460)^{\circ}\text{R}}$$

where:
 EF_F = Emission factor (lb/MMBtu)
 F_F = Fuel factor (dscf/MMBtu)
 $\%O_2$ = Percent oxygen in the stack

Equation 3: Emission Rate in (lb/hr) for particulate HAPs:

$$ER \left(\frac{\text{lb}}{\text{hr}} \right) = 3.70 \times 10^{-9} C \left(\frac{\mu\text{g}}{\text{dscm}} \right) \times Q_{stk} \left(\frac{\text{dscf}}{\text{min}} \right)$$

where: C = Measured concentration ($\mu\text{g}/\text{dscm}$)

Equation 4: Emission Factor in (lb/MMBtu) for particulate HAPs:

$$EF_F \left(\frac{\text{lb}}{\text{MMBtu}} \right) = 6.23 \times 10^{-11} \times C \left(\frac{\mu\text{g}}{\text{dscm}} \right) \times F_F \left(\frac{\text{dscf}}{\text{MMBtu}} \right) \times \frac{20.9}{20.9 - \% O_2}$$

where: C = Measured concentration ($\mu\text{g}/\text{dscm}$)

Equation 5: Emission Factor in (lb/HP-hr) for both gaseous and particulate HAPs:

$$EF_P \left(\frac{\text{lb}}{\text{HP-hr}} \right) = \frac{ER \left(\frac{\text{lb}}{\text{hr}} \right)}{P (\text{HP}) \times \left(\frac{\text{Load}}{100} \right)}$$

where:
 EF_P = Emission factor based on power output (lb/HP-hr)
 P = Power output (HP)
Load = Load conditions of the tested engine

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ATTACHMENT 1

Summary of HAP Test Data for Natural Gas-Fired RICE

Summary of HAP Test Data for Natural Gas-Fired IC Engines

19-Mar-96

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|----------------------------------|---------|--------|---------------|----|---------------|----|-----------------|----|------------------|
| 1,1,2,2-Tetrachloroethane | | | | | | | | | |
| 3.2 | TO-14 | ND | ppb | << | .00202 | << | .000145 | << | .00000112 |
| 3.5 | TO-14 | ND | ppb | << | .00207 | << | .00011 | << | .00000115 |
| 3.4 | TO-14 | ND | ppb | << | .00197 | << | .000113 | << | .00000123 |
| 3.8 | TO-14 | ND | ppb | << | .00221 | << | .0000937 | << | .00000123 |
| 3.6 | TO-14 | ND | ppb | << | .00217 | << | .000106 | << | .00000108 |
| 3.3 | TO-14 | ND | ppb | << | .00217 | << | .000146 | << | .00000109 |
| 3.7 | TO-14 | ND | ppb | << | .00225 | << | .0000916 | << | .00000112 |
| 3.1 | TO-14 | ND | ppb | << | .00191 | << | .000113 | << | .00000119 |
| 3.19 | TO-14 | ND | ppb | << | .000814 | << | .0000401 | << | .00000139 |
| 3.13 | TO-14 | ND | ppb | << | .00235 | << | .0000732 | << | .00000131 |
| 3.11 | TO-14 | ND | ppb | << | .00219 | << | .0000701 | << | .0000011 |
| 3.10 | TO-14 | ND | ppb | << | .00231 | << | .0000732 | << | .00000116 |
| 3.20 | TO-14 | ND | ppb | << | .000773 | << | .0000393 | << | .00000149 |
| 3.18 | TO-14 | 11.3 | ppb | < | .00105 | < | .0000443 | < | .0000018 |
| 3.16 | TO-14 | ND | ppb | << | .00103 | << | .0000391 | << | .00000158 |
| 3.15 | TO-14 | ND | ppb | << | .0021 | << | .0000782 | << | .00000131 |
| 3.12 | TO-14 | ND | ppb | << | .00229 | << | .0000713 | << | .00000127 |
| 3.14 | TO-14 | ND | ppb | << | .0021 | << | .0000814 | << | .00000131 |
| 3.9 | TO-14 | ND | ppb | << | .00214 | << | .0000983 | << | .00000134 |
| 3.17 | TO-14 | ND | ppb | << | .0009 | << | .0000387 | << | .00000138 |
| 3.21 | TO-14 | ND | ppb | << | .00068 | << | .0000393 | << | .00000131 |
| Average: | | | | | .00179 | | .0000812 | | .00000128 |
| Total: | | | | | .0375 | | .0017 | | .000027 |
| 1,1,2-Trichloroethane | | | | | | | | | |
| 3.4 | TO-14 | ND | ppb | << | .00125 | << | .0000716 | << | .000000779 |
| 3.6 | TO-14 | ND | ppb | << | .00137 | << | .0000671 | << | .000000687 |
| 3.3 | TO-14 | ND | ppb | << | .00138 | << | .0000923 | << | .000000688 |
| 3.5 | TO-14 | ND | ppb | << | .00131 | << | .0000697 | << | .000000728 |
| 3.2 | TO-14 | ND | ppb | << | .00128 | << | .000092 | << | .000000711 |
| 3.7 | TO-14 | ND | ppb | << | .00142 | << | .000058 | << | .00000071 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | lb/MMBtu | | lb/hr-HP |
|---------------------------|---------|--------|---------------|----|---------------|----------|-----------------|---------------|
| 3.1 | TO-14 | ND | ppb | << | .00121 | << | .0000716 | << .000000756 |
| 3.8 | TO-14 | ND | ppb | << | .0014 | << | .0000594 | << .000000778 |
| 3.20 | TO-14 | ND | ppb | << | .00049 | << | .0000249 | << .000000942 |
| 3.14 | TO-14 | ND | ppb | << | .00133 | << | .0000516 | << .000000831 |
| 3.15 | TO-14 | ND | ppb | << | .00133 | << | .0000496 | << .000000831 |
| 3.13 | TO-14 | ND | ppb | << | .00149 | << | .0000464 | << .000000828 |
| 3.12 | TO-14 | ND | ppb | << | .00145 | << | .0000452 | << .000000806 |
| 3.11 | TO-14 | ND | ppb | << | .00139 | << | .0000444 | << .000000695 |
| 3.19 | TO-14 | ND | ppb | << | .000516 | << | .0000254 | << .000000882 |
| 3.16 | TO-14 | ND | ppb | << | .000653 | << | .0000248 | << .000001 |
| 3.10 | TO-14 | ND | ppb | << | .00147 | << | .0000464 | << .000000735 |
| 3.17 | TO-14 | ND | ppb | << | .00057 | << | .0000246 | << .000000877 |
| 3.21 | TO-14 | ND | ppb | << | .000431 | << | .0000249 | << .000000829 |
| 3.9 | TO-14 | ND | ppb | << | .00136 | << | .0000623 | << .00000085 |
| 3.18 | TO-14 | ND | ppb | << | .000587 | << | .0000248 | << .000001 |
| Average: | | | | | .00113 | | .0000513 | |
| Total: | | | | | .0237 | | .00108 | |
| 1,1-Dichloroethane | | | | | | | | |
| 3.6 | TO-14 | ND | ppb | << | .00128 | << | .0000624 | << .000000638 |
| 3.4 | TO-14 | ND | ppb | << | .00116 | << | .0000666 | << .000000723 |
| 3.7 | TO-14 | ND | ppb | << | .00132 | << | .000054 | << .00000066 |
| 3.5 | TO-14 | ND | ppb | << | .00122 | << | .0000648 | << .000000678 |
| 3.1 | TO-14 | ND | ppb | << | .00113 | << | .0000666 | << .000000704 |
| 3.3 | TO-14 | ND | ppb | << | .00128 | << | .0000858 | << .000000638 |
| 3.8 | TO-14 | ND | ppb | << | .0013 | << | .0000552 | << .000000722 |
| 3.2 | TO-14 | ND | ppb | << | .00119 | << | .0000855 | << .000000661 |
| 3.17 | TO-14 | ND | ppb | << | .00053 | << | .0000228 | << .000000815 |
| 3.15 | TO-14 | ND | ppb | << | .00124 | << | .0000461 | << .000000775 |
| 3.19 | TO-14 | ND | ppb | << | .00048 | << | .0000236 | << .000000821 |
| 3.18 | TO-14 | ND | ppb | << | .000546 | << | .000023 | << .000000933 |
| 3.20 | TO-14 | ND | ppb | << | .000456 | << | .0000232 | << .000000877 |
| 3.16 | TO-14 | ND | ppb | << | .000607 | << | .000023 | << .000000934 |
| 3.21 | TO-14 | ND | ppb | << | .0004 | << | .0000232 | << .000000769 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|---------------------------|---------|--------|---------------|----|---------------|----|-----------------|----|------------------|
| 3.9 | TO-14 | ND | ppb | << | .00126 | << | .0000579 | << | .000000788 |
| 3.10 | TO-14 | ND | ppb | << | .00136 | << | .0000432 | << | .00000068 |
| 3.11 | TO-14 | ND | ppb | << | .00129 | << | .0000413 | << | .000000645 |
| 3.14 | TO-14 | ND | ppb | << | .00124 | << | .000048 | << | .000000775 |
| 3.12 | TO-14 | ND | ppb | << | .00135 | << | .000042 | << | .00000075 |
| 3.13 | TO-14 | ND | ppb | << | .00138 | << | .0000432 | << | .000000767 |
| Average: | | | | | .00105 | | .0000477 | | .00000075 |
| Total: | | | | | .022 | | .001 | | .0000158 |
| 1,2-Dichloroethane | | | | | | | | | |
| 3.5 | TO-14 | ND | ppb | << | .00122 | << | .0000648 | << | .000000678 |
| 3.8 | TO-14 | ND | ppb | << | .0013 | << | .0000552 | << | .000000722 |
| 3.4 | TO-14 | ND | ppb | << | .00116 | << | .0000666 | << | .000000723 |
| 3.7 | TO-14 | ND | ppb | << | .00132 | << | .000054 | << | .00000066 |
| 3.2 | TO-14 | ND | ppb | << | .00119 | << | .0000855 | << | .000000661 |
| 3.1 | TO-14 | ND | ppb | | NR | | NR | | NR |
| 3.3 | TO-14 | ND | ppb | << | .00128 | << | .0000858 | << | .000000638 |
| 3.6 | TO-14 | ND | ppb | << | .00128 | << | .0000624 | << | .000000638 |
| 3.19 | TO-14 | ND | ppb | << | .00048 | << | .0000236 | << | .000000821 |
| 3.15 | TO-14 | ND | ppb | << | .00124 | << | .0000461 | << | .000000775 |
| 3.18 | TO-14 | ND | ppb | << | .000546 | << | .000023 | << | .000000933 |
| 3.9 | TO-14 | ND | ppb | << | .00126 | << | .0000579 | << | .000000788 |
| 3.14 | TO-14 | ND | ppb | << | .00124 | << | .000048 | << | .000000775 |
| 3.10 | TO-14 | ND | ppb | << | .00136 | << | .0000432 | << | .00000068 |
| 3.21 | TO-14 | ND | ppb | << | .0004 | << | .0000232 | << | .000000769 |
| 3.17 | TO-14 | ND | ppb | << | .00053 | << | .0000228 | << | .000000815 |
| 3.20 | TO-14 | ND | ppb | << | .000456 | << | .0000232 | << | .000000877 |
| 3.16 | TO-14 | ND | ppb | << | .000607 | << | .000023 | << | .000000934 |
| 3.11 | TO-14 | ND | ppb | << | .00129 | << | .0000413 | << | .000000645 |
| 3.13 | TO-14 | ND | ppb | << | .00138 | << | .0000432 | << | .000000767 |
| 3.12 | TO-14 | ND | ppb | << | .00135 | << | .000042 | << | .00000075 |
| Average: | | | | | .00105 | | .0000468 | | .00000075 |
| Total: | | | | | .0209 | | .000935 | | .000015 |

1,2-Dichloropropane

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|----------------------------|--------------|--------|---------------|--------|----------|--------------|
| 3.6 | TO-14 | ND | ppb | << | .00146 | << .00000728 |
| 3.7 | TO-14 | ND | ppb | << | .00151 | << .00000755 |
| 3.2 | TO-14 | ND | ppb | << | .00136 | << .00000756 |
| 3.3 | TO-14 | ND | ppb | << | .00146 | << .0000073 |
| 3.8 | TO-14 | ND | ppb | << | .00149 | << .00000828 |
| 3.5 | TO-14 | ND | ppb | << | .00139 | << .00000772 |
| 3.1 | TO-14 | ND | ppb | << | .00128 | << .00000802 |
| 3.4 | TO-14 | ND | ppb | << | .00133 | << .00000829 |
| 3.13 | TO-14 | ND | ppb | << | .00158 | << .00000878 |
| 3.14 | TO-14 | ND | ppb | << | .00141 | << .00000881 |
| 3.16 | TO-14 | ND | ppb | << | .000693 | << .00000107 |
| 3.17 | TO-14 | ND | ppb | << | .000605 | << .00000931 |
| 3.11 | TO-14 | ND | ppb | << | .00147 | << .00000735 |
| 3.9 | TO-14 | ND | ppb | << | .00144 | << .0000009 |
| 3.15 | TO-14 | ND | ppb | << | .00141 | << .00000881 |
| 3.18 | TO-14 | ND | ppb | << | .000623 | << .00000106 |
| 3.12 | TO-14 | ND | ppb | << | .00154 | << .00000856 |
| 3.10 | TO-14 | ND | ppb | << | .00155 | << .00000775 |
| 3.20 | TO-14 | ND | ppb | << | .00052 | << .000001 |
| 3.21 | TO-14 | ND | ppb | << | .000457 | << .00000879 |
| 3.19 | TO-14 | ND | ppb | << | .000548 | << .00000937 |
| Average: | | | | .0012 | .0000544 | .00000856 |
| Total: | | | | .0251 | .00114 | .000018 |
| 1,3-Butadiene | | | | | | |
| 25.1 | CARB 422.102 | 68.7 | ppb | .00052 | .0000872 | .00000889 |
| 25.2 | CARB 422.102 | 75 | ppb | .0106 | .00027 | .00000276 |
| 25.3 | CARB 422.102 | 159 | ppb | .00313 | .00032 | .00000313 |
| 25.4 | CARB 422.102 | 435 | ppb | .00947 | .00102 | .00000902 |
| Average: | | | | .00593 | .000424 | .00000395 |
| Total: | | | | .0237 | .0017 | .0000158 |
| 1,3-Dichloropropene | | | | | | |
| 3.6 | TO-14 | ND | ppb | << | .00143 | << .00000717 |
| 3.7 | TO-14 | ND | ppb | << | .00148 | << .0000074 |

| Pollutant | Test ID | Method | Concentration | lb/hr | | lb/MMBtu | | lb/hr-HP |
|---------------------|----------|--------|---------------|---------------|---------|-----------------|----------|-------------------|
| 3.4 | TO-14 | ND | ppb | << | .0013 | << | .0000747 | << .00000081 |
| 3.8 | TO-14 | ND | ppb | << | .00146 | << | .0000619 | << .000000811 |
| 3.1 | TO-14 | ND | ppb | << | .00126 | << | .0000747 | << .000000788 |
| 3.3 | TO-14 | ND | ppb | << | .00144 | << | .0000962 | << .000000718 |
| 3.2 | TO-14 | ND | ppb | << | .00134 | << | .0000958 | << .000000744 |
| 3.5 | TO-14 | ND | ppb | << | .00137 | << | .0000726 | << .000000761 |
| 3.16 | TO-14 | ND | ppb | << | .000681 | << | .0000258 | << .00000105 |
| 3.14 | TO-14 | ND | ppb | << | .00139 | << | .0000538 | << .000000869 |
| 3.13 | TO-14 | ND | ppb | << | .00155 | << | .0000484 | << .000000861 |
| 3.10 | TO-14 | ND | ppb | << | .00153 | << | .0000484 | << .000000765 |
| 3.9 | TO-14 | ND | ppb | << | .00141 | << | .0000649 | << .000000881 |
| 3.11 | TO-14 | ND | ppb | << | .00144 | << | .0000463 | << .00000072 |
| 3.20 | TO-14 | ND | ppb | << | .000511 | << | .000026 | << .000000983 |
| 3.17 | TO-14 | ND | ppb | << | .000595 | << | .0000256 | << .000000915 |
| 3.18 | TO-14 | ND | ppb | << | .000612 | << | .0000258 | << .00000105 |
| 3.19 | TO-14 | ND | ppb | << | .000538 | << | .0000265 | << .00000092 |
| 3.15 | TO-14 | ND | ppb | << | .00139 | << | .0000517 | << .000000869 |
| 3.21 | TO-14 | ND | ppb | << | .000449 | << | .000026 | << .000000863 |
| 3.12 | TO-14 | ND | ppb | << | .00151 | << | .0000471 | << .000000839 |
| Average: | | | | .00118 | | .0000535 | | .000000842 |
| Total: | | | | .0247 | | .00112 | | .0000177 |
| Acetaldehyde | | | | | | | | |
| 3.1 | CARB 430 | 2200 | ppb | | .11 | | .00656 | .0000684 |
| 7.7 | CARB 430 | 1330 | ppb | | .00551 | | .0015 | .0000265 |
| 25.4 | CARB 430 | 98.1 | ppb | | .00174 | | .000188 | .00000166 |
| 3.5 | CARB 430 | ND | ppb | << | .0542 | << | .00288 | << .0000301 |
| 7.8 | CARB 430 | 5100 | ppb | | .0211 | | .00701 | .000102 |
| 7.6 | CARB 430 | 3750 | ppb | | .0102 | | .00552 | .000133 |
| 20.2 | CARB 430 | ND | ppb | << | .000135 | << | .0000192 | << .000000231 |
| 7.13 | CARB 430 | 2290 | ppb | | .0561 | | .00679 | .0000849 |
| 3.2 | CARB 430 | 810 | ppb | | .0429 | | .00307 | .0000238 |
| 3.3 | CARB 430 | 1190 | ppb | | .0675 | | .00455 | .0000337 |
| 27 | CARB 430 | 143 | ppb | | .008 | | .000329 | .00000228 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|-----------|----------|--------|---------------|----------|---------|----|----------|----|------------|
| 7.5 | CARB 430 | 1660 | ppb | | .00454 | | .00229 | | .0000589 |
| 3.4 | CARB 430 | ND | ppb | << | .0515 | << | .00296 | << | .0000322 |
| 25.1 | CARB 430 | 50.7 | ppb | | .000312 | | .0000524 | | .000000533 |
| 7.12 | CARB 430 | 1510 | ppb | | .000707 | | .00203 | | .0000034 |
| 25.2 | CARB 430 | 299 | ppb | | .0346 | | .000868 | | .00000897 |
| 25.3 | CARB 430 | 13.6 | ppb | | .000218 | | .0000223 | | .000000218 |
| 20.1 | CARB 430 | 26.7 | ppb | < | .000259 | < | .0000367 | < | .000000443 |
| 3.7 | CARB 430 | .218 | ug/ml | | NR | | NR | | NR |
| 3.9 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.8 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.6 | CARB 430 | ND | ppb | << | .0568 | << | .00277 | << | .0000284 |
| 3.12 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.14 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.21 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.10 | CARB 430 | .0533 | ug/ml | | NR | | NR | | NR |
| 3.18 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.17 | CARB 430 | ND | ppb | << | .0236 | << | .00101 | << | .0000363 |
| 3.16 | CARB 430 | .094 | ug/ml | | NR | | NR | | NR |
| 3.15 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.19 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.20 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.13 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 3.11 | CARB 430 | .0667 | ug/ml | | NR | | NR | | NR |
| | | | | Average: | .0275 | | .00253 | | .0000338 |
| | | | | Total: | .55 | | .0505 | | .000676 |

Acrolein

| | | | | | | | | | |
|------|----------|------|-----|----|---------|----|----------|----|------------|
| 3.9 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| 25.3 | CARB 430 | 10.7 | ppb | | .000218 | | .0000223 | | .000000218 |
| 7.12 | CARB 430 | 240 | ppb | | .000143 | | .000412 | | .000000688 |
| 7.8 | CARB 430 | 2160 | ppb | | .0114 | | .00378 | | .0000548 |
| 3.4 | CARB 430 | ND | ppb | << | .0656 | << | .00377 | << | .000041 |
| 3.2 | CARB 430 | ND | ppb | << | .0674 | << | .00483 | << | .0000374 |
| 7.5 | CARB 430 | 233 | ppb | < | .00121 | < | .000612 | < | .0000158 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|----------------|-----------|--------|---------------|---------|----------|------------|
| 7.13 | CARB 430 | 563 | ppb | .0175 | .00213 | .0000266 |
| 7.7 | CARB 430 | 687 | ppb | .00361 | .000981 | .0000174 |
| 3.3 | CARB 430 | ND | ppb | << | .0724 | << |
| 25.2 | CARB 430 | 20.3 | ppb | .00299 | .0000755 | .000000776 |
| 3.7 | CARB 430 | ND | ppb | << | .0749 | << |
| 25.1 | CARB 430 | 375 | ppb | .00294 | .000494 | .00000503 |
| 3.5 | CARB 430 | ND | ppb | << | .0689 | << |
| 25.4 | CARB 430 | 24.3 | ppb | .000549 | .0000591 | .000000523 |
| 3.1 | CARB 430 | ND | ppb | << | .0636 | << |
| 3.8 | CARB 430 | ND | ppb | NR | NR | NR |
| 20.2 | CARB 430 | ND | ppb | << | .000172 | << |
| 7.6 | CARB 430 | 833 | ppb | .00289 | .00156 | .0000375 |
| 20.1 | CARB 430 | ND | ppb | << | .000898 | << |
| 3.6 | CARB 430 | ND | ppb | << | .0723 | << |
| 3.16 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.20 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.15 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.10 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.11 | CARB 430 | ND | ppb | << | .0729 | << |
| 3.21 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.18 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.13 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.19 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.17 | CARB 430 | ND | ppb | << | .03 | << |
| 3.14 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.12 | CARB 430 | ND | ppb | NR | NR | NR |
| Average: | | | | .0301 | .00197 | .0000243 |
| Total: | | | | .633 | .0414 | .00051 |
| Benzene | | | | | | |
| 3.8 | TO-14 | 127 | ppb | .013 | .000551 | .00000724 |
| 3.3 | TO-14 | 18.7 | ppb | .00188 | .000126 | .000000943 |
| 3.1 | TO-14 | 14.7 | ppb | .0013 | .000077 | .000000813 |
| 7.12 | CARB 410A | 525 | ppb | .000436 | .00125 | .0000021 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|-----------|-----------------|--------|---------------|----------|-----------|-------------|
| 25.4 | CARB 410A | 360 | ppb | .0113 | .00123 | .0000108 |
| 7.1 | CARB 410A | 995 | ppb | .0046 | .00205 | .0000766 |
| 25.3 | CARB 410A | 61 | ppb | .00174 | .000178 | .00000174 |
| 11.1 | CARB 410A | 32.7 | ppb | .000351 | .0000983 | .000000195 |
| 27 | CARB 410A | 42 | ppb | .00417 | .000174 | .00000119 |
| 11.2 | CARB 410A | 51.7 | ppb | .000348 | .000118 | .00000085 |
| 3.7 | TO-14 | 95.7 | ppb | .00997 | .000407 | .00000499 |
| 11.3 | CARB 410A | 157 | ppb | .0167 | .00135 | .0000408 |
| 7.13 | CARB 410A | 830 | ppb | .036 | .00436 | .0000545 |
| 3.2 | TO-14 | 15 | ppb | < | .000101 | < |
| 4 | EPA Level 1 Pro | 282 | ppb | .0107 | .000953 | .00000629 |
| 25.2 | CARB 410A | 30.7 | ppb | .00628 | .00016 | .00000163 |
| 26 | CARB 410A | 1.87 | ppb | .0000219 | .00000367 | .0000000273 |
| 7.6 | CARB 410A | 315 | ppb | .00152 | .000822 | .0000198 |
| 3.6 | TO-14 | 158 | ppb | .0159 | .000779 | .00000798 |
| 7.5 | CARB 410A | 425 | ppb | .00205 | .00103 | .0000267 |
| 7.14 | CARB 410A | 2400 | ppb | .0174 | .013 | .000116 |
| 20.1 | CARB 410 | 400 | ppb | .00714 | .00101 | .0000122 |
| 7.8 | CARB 410A | 550 | ppb | .00403 | .00134 | .0000194 |
| 25.1 | CARB 410A | 119 | ppb | .0013 | .000218 | .00000222 |
| 3.4 | TO-14 | 308 | ppb | .0282 | .00162 | .0000176 |
| 7.10 | CARB 410A | 580 | ppb | .0028 | .00152 | .0000379 |
| 7.4 | CARB 410A | 6150 | ppb | .0284 | .0108 | .000526 |
| 3.5 | TO-14 | 307 | ppb | .0294 | .00157 | .0000163 |
| 7.11 | CARB 410A | 560 | ppb | .0027 | .0011 | .0000366 |
| 7.3 | CARB 410A | 415 | ppb | .003 | .000924 | .0000189 |
| 20.2 | CARB 410 | 63.3 | ppb | .00144 | .000203 | .00000246 |
| 7.7 | CARB 410A | 630 | ppb | .00461 | .00126 | .0000222 |
| 7.2 | CARB 410A | 960 | ppb | .00443 | .00213 | .0000739 |
| 10 | CARB 410A | 75.7 | ppb | .00585 | .000537 | .00000269 |
| 3.9 | TO-14 | 290 | ppb | .0288 | .00132 | .000018 |
| 3.20 | TO-14 | 213 | ppb | .00766 | .000389 | .0000147 |
| 3.11 | TO-14 | 47 | ppb | .00477 | .000153 | .00000238 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | lb/MMBtu | lb/hr-HP | | |
|-----------------------------|---------|--------|---------------|-----|--------------|---------------|-----------------|-----------|------------|
| 3.18 | TO-14 | | 181 | ppb | .00778 | .000329 | .0000133 | | |
| 3.13 | TO-14 | | 56 | ppb | .0061 | .00019 | .00000339 | | |
| 3.21 | TO-14 | | 17 | ppb | .000536 | .000031 | .00000103 | | |
| 3.12 | TO-14 | | 193 | ppb | .0205 | .00064 | .0000114 | | |
| 3.16 | TO-14 | | 140 | ppb | .0067 | .000254 | .0000103 | | |
| 3.19 | TO-14 | | 55.6 | ppb | < | .0021 | < | .00000359 | |
| 3.15 | TO-14 | | 92.3 | ppb | | .009 | .000335 | .00000563 | |
| 3.17 | TO-14 | | 17.3 | ppb | | .000724 | .0000312 | .00000112 | |
| 3.10 | TO-14 | | 140 | ppb | | .015 | .000476 | .00000752 | |
| 3.14 | TO-14 | | 243 | ppb | | .0237 | .000919 | .0000148 | |
| Average: | | | | | .0088 | .00124 | .0000272 | | |
| Total: | | | | | .414 | .0582 | .00128 | | |
| Carbon Tetrachloride | | | | | | | | | |
| 3.5 | TO-14 | ND | ppb | << | .0019 | << | .000101 | << | .00000106 |
| 3.2 | TO-14 | ND | ppb | << | .00185 | << | .000133 | << | .00000103 |
| 3.6 | TO-14 | ND | ppb | << | .00199 | << | .0000971 | << | .000000995 |
| 3.1 | TO-14 | ND | ppb | << | .00175 | << | .000104 | << | .00000109 |
| 3.3 | TO-14 | ND | ppb | << | .00199 | << | .000134 | << | .000000997 |
| 3.8 | TO-14 | ND | ppb | << | .00203 | << | .0000859 | << | .00000113 |
| 3.4 | TO-14 | ND | ppb | << | .0018 | << | .000104 | << | .00000113 |
| 3.7 | TO-14 | ND | ppb | << | .00206 | << | .0000839 | << | .00000103 |
| 3.12 | TO-14 | ND | ppb | << | .0021 | << | .0000654 | << | .00000117 |
| 3.15 | TO-14 | ND | ppb | << | .00193 | << | .0000717 | << | .00000121 |
| 3.21 | TO-14 | ND | ppb | << | .000623 | << | .000036 | << | .0000012 |
| 3.9 | TO-14 | ND | ppb | << | .00196 | << | .0000901 | << | .00000122 |
| 3.10 | TO-14 | ND | ppb | << | .00212 | << | .0000671 | << | .00000106 |
| 3.17 | TO-14 | ND | ppb | << | .000825 | << | .0000355 | << | .00000127 |
| 3.19 | TO-14 | ND | ppb | << | .000746 | << | .0000367 | << | .00000128 |
| 3.18 | TO-14 | ND | ppb | << | .000849 | << | .0000359 | << | .00000145 |
| 3.13 | TO-14 | ND | ppb | << | .00215 | << | .0000671 | << | .00000119 |
| 3.16 | TO-14 | ND | ppb | << | .000945 | << | .0000359 | << | .00000145 |
| 3.20 | TO-14 | ND | ppb | << | .000709 | << | .000036 | << | .00000136 |
| 3.14 | TO-14 | ND | ppb | << | .00192 | << | .0000746 | << | .0000012 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|----------------------|-----------------|--------|---------------|----|---------|----|-----------|----|-------------|
| 3.11 | TO-14 | ND | ppb | << | .002 | << | .0000642 | << | .000001 |
| | | | Average: | | .00163 | | .0000742 | | .00000117 |
| | | | Total: | | .0342 | | .00156 | | .0000245 |
| Chlorobenzene | | | | | | | | | |
| 3.8 | TO-14 | ND | ppb | << | .00148 | << | .0000627 | << | .000000822 |
| 4 | EPA Level 1 Pro | 13 | ppb | | .00071 | | .0000634 | | .000000418 |
| 3.6 | TO-14 | ND | ppb | << | .00145 | << | .0000709 | << | .000000727 |
| 3.3 | TO-14 | ND | ppb | << | .00146 | << | .0000975 | << | .000000728 |
| 3.4 | TO-14 | ND | ppb | << | .00132 | << | .0000757 | << | .000000823 |
| 3.1 | TO-14 | ND | ppb | << | .00128 | << | .0000757 | << | .000000798 |
| 3.2 | TO-14 | ND | ppb | << | .00135 | << | .0000971 | << | .00000075 |
| 3.5 | TO-14 | ND | ppb | << | .00138 | << | .0000736 | << | .000000767 |
| 3.7 | TO-14 | ND | ppb | << | .0015 | << | .0000613 | << | .00000075 |
| 3.13 | TO-14 | ND | ppb | << | .00157 | << | .0000491 | << | .000000872 |
| 3.14 | TO-14 | ND | ppb | << | .0014 | << | .0000545 | << | .000000875 |
| 3.11 | TO-14 | ND | ppb | << | .00146 | << | .0000469 | << | .00000073 |
| 3.20 | TO-14 | ND | ppb | << | .000518 | << | .0000263 | << | .000000996 |
| 3.12 | TO-14 | ND | ppb | << | .00153 | << | .0000477 | << | .00000085 |
| 3.17 | TO-14 | ND | ppb | << | .000603 | << | .0000259 | << | .000000928 |
| 3.16 | TO-14 | ND | ppb | << | .00069 | << | .0000262 | << | .00000106 |
| 3.18 | TO-14 | ND | ppb | << | .00062 | << | .0000262 | << | .00000106 |
| 3.19 | TO-14 | ND | ppb | << | .000545 | << | .0000268 | << | .000000932 |
| 3.21 | TO-14 | ND | ppb | << | .000455 | << | .0000263 | << | .000000875 |
| 3.15 | TO-14 | ND | ppb | << | .00141 | << | .0000524 | << | .000000881 |
| 3.9 | TO-14 | ND | ppb | << | .00143 | << | .0000658 | << | .000000894 |
| 3.10 | TO-14 | ND | ppb | << | .00155 | << | .0000491 | << | .000000775 |
| | | | Average: | | .00117 | | .0000546 | | .000000832 |
| | | | Total: | | .0257 | | .0012 | | .0000183 |
| Chloroethane | | | | | | | | | |
| 4 | EPA Level 1 Pro | .67 | ppb | | .000021 | | .00000187 | | .0000000124 |
| | | | Average: | | .000021 | | .00000187 | | .0000000124 |
| | | | Total: | | .000021 | | .00000187 | | .0000000124 |
| Chloroform | | | | | | | | | |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|---------------------|-----------------|--------|---------------|----------|-----------|---------------|
| 3.8 | TO-14 | ND | ppb | << | .00157 | << .00000872 |
| 3.2 | TO-14 | ND | ppb | << | .00144 | << .0000008 |
| 3.1 | TO-14 | ND | ppb | << | .00136 | << .00000848 |
| 3.3 | TO-14 | ND | ppb | << | .00155 | << .00000773 |
| 3.7 | TO-14 | ND | ppb | << | .0016 | << .0000008 |
| 3.6 | TO-14 | ND | ppb | << | .00154 | << .00000772 |
| 3.4 | TO-14 | ND | ppb | << | .0014 | << .00000873 |
| 3.5 | TO-14 | ND | ppb | << | .00147 | << .00000817 |
| 3.14 | TO-14 | ND | ppb | << | .00149 | << .00000931 |
| 3.10 | TO-14 | ND | ppb | << | .00164 | << .00000082 |
| 3.21 | TO-14 | ND | ppb | << | .000483 | << .00000929 |
| 3.20 | TO-14 | ND | ppb | << | .00055 | << .00000106 |
| 3.12 | TO-14 | ND | ppb | << | .00163 | << .00000906 |
| 3.17 | TO-14 | ND | ppb | << | .00064 | << .00000985 |
| 3.13 | TO-14 | ND | ppb | << | .00167 | << .00000928 |
| 3.18 | TO-14 | ND | ppb | << | .000659 | << .00000113 |
| 3.9 | TO-14 | ND | ppb | << | .00152 | << .0000095 |
| 3.19 | TO-14 | ND | ppb | << | .000579 | << .0000099 |
| 3.15 | TO-14 | ND | ppb | << | .00149 | << .00000931 |
| 3.11 | TO-14 | ND | ppb | << | .00156 | << .00000078 |
| 3.16 | TO-14 | ND | ppb | << | .000733 | << .00000113 |
| Average: | | | | .00127 | .0000576 | .000000906 |
| Total: | | | | .0266 | .00121 | .000019 |
| Ethylbenzene | | | | | | |
| 4 | EPA Level 1 Pro | 5 | ppb | .000257 | .000023 | .000000151 |
| 10 | CARB 410A | 19 | ppb | .002 | .000183 | .00000092 |
| 3.8 | TO-14 | 5.63 | ppb | .000787 | .0000333 | .000000437 |
| 3.2 | TO-14 | ND | ppb | << | .0000915 | << .000000711 |
| 3.3 | TO-14 | ND | ppb | << | .0000919 | << .000000685 |
| 25.2 | CARB 410A | 10.7 | ppb | .00297 | .0000753 | .000000771 |
| 3.6 | TO-14 | ND | ppb | << | .0000668 | << .000000683 |
| 3.4 | TO-14 | ND | ppb | << | .0000713 | << .000000777 |
| 25.1 | CARB 410A | 3.33 | ppb | .0000495 | .00000831 | .0000000849 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|---------------------------|-----------|--------|---------------|---------------|-----------------|-------------------|
| 25.3 | CARB 410A | 9 | ppb | .000349 | .0000356 | .000000349 |
| 3.7 | TO-14 | ND | ppb | << | .00142 | << |
| 3.1 | TO-14 | ND | ppb | << | .00121 | << |
| 11.1 | CARB 410A | ND | ppb | << | .0000731 | << |
| 11.3 | CARB 410A | ND | ppb | << | .000726 | << |
| 11.2 | CARB 410A | ND | ppb | << | .0000458 | << |
| 25.4 | CARB 410A | 11.3 | ppb | .000484 | .0000523 | .000000461 |
| 3.5 | TO-14 | ND | ppb | << | .0013 | << |
| 3.17 | TO-14 | ND | ppb | << | .000568 | << |
| 3.18 | TO-14 | 12.7 | ppb | < | .00074 | < |
| 3.20 | TO-14 | 9.7 | ppb | < | .000473 | < |
| 3.21 | TO-14 | ND | ppb | << | .000429 | << |
| 3.12 | TO-14 | 10.5 | ppb | .00152 | .0000472 | .000000842 |
| 3.10 | TO-14 | 7.8 | ppb | .00114 | .0000361 | .000000569 |
| 3.9 | TO-14 | 14.7 | ppb | .00198 | .0000908 | .00000124 |
| 3.11 | TO-14 | ND | ppb | << | .00138 | << |
| 3.13 | TO-14 | ND | ppb | << | .00148 | << |
| 3.15 | TO-14 | ND | ppb | << | .00133 | << |
| 3.14 | TO-14 | 11.1 | ppb | .00147 | .0000572 | .000000919 |
| 3.16 | TO-14 | ND | ppb | << | .00065 | << |
| 3.19 | TO-14 | ND | ppb | << | .000514 | << |
| Average: | | | | .00102 | .0000517 | .000000727 |
| Total: | | | | .0306 | .00155 | .0000218 |
| Ethylene Dibromide | | | | | | |
| 3.3 | TO-14 | ND | ppb | << | .0024 | << |
| 3.1 | TO-14 | ND | ppb | << | .00211 | << |
| 3.6 | TO-14 | ND | ppb | << | .0024 | << |
| 3.4 | TO-14 | ND | ppb | << | .00218 | << |
| 3.2 | TO-14 | ND | ppb | << | .00224 | << |
| 3.7 | TO-14 | ND | ppb | << | .00249 | << |
| 3.5 | TO-14 | ND | ppb | << | .00229 | << |
| 3.8 | TO-14 | ND | ppb | << | .00245 | << |
| 3.14 | TO-14 | ND | ppb | << | .00232 | << |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|---------------------|----------|--------|---------------|-----------|-------------|---------------|
| 3.16 | TO-14 | ND | ppb | << | .00114 | << .00000175 |
| 3.19 | TO-14 | ND | ppb | << | .000902 | << .00000154 |
| 3.12 | TO-14 | ND | ppb | << | .00254 | << .00000141 |
| 3.18 | TO-14 | ND | ppb | << | .00103 | << .00000176 |
| 3.11 | TO-14 | ND | ppb | << | .00242 | << .00000121 |
| 3.21 | TO-14 | ND | ppb | << | .000752 | << .00000145 |
| 3.15 | TO-14 | ND | ppb | << | .00233 | << .00000146 |
| 3.9 | TO-14 | ND | ppb | << | .00237 | << .00000148 |
| 3.17 | TO-14 | ND | ppb | << | .000996 | << .00000153 |
| 3.13 | TO-14 | ND | ppb | << | .0026 | << .00000144 |
| 3.10 | TO-14 | ND | ppb | << | .00256 | << .00000128 |
| 3.20 | TO-14 | ND | ppb | << | .000856 | << .00000165 |
| Average: | | | | .00197 | .0000896 | .00000141 |
| Total: | | | | .0414 | .00188 | .0000296 |
| Formaldehyde | | | | | | |
| 11.1 | CARB 430 | 4740 | ppb | .0196 | .0055 | .0000109 |
| 7.2 | CARB 430 | 85300 | ppb | .152 | .0726 | .00253 |
| 14.5 | CARB 430 | 5830 | ppb | .152 | .0132 | .0000701 |
| 7.6 | CARB 430 | 40500 | ppb | .0753 | .0406 | .000978 |
| 25.1 | CARB 430 | 381 | ppb | .0016 | .000269 | .00000274 |
| 21 | CARB 430 | 18000 | ppb | .033 | .022 | .000033 |
| 20.2 | CARB 430 | ND | ppb | << | .0000262 | << .000000315 |
| 7.7 | CARB 430 | 24000 | ppb | .0677 | .0184 | .000325 |
| 20.1 | CARB 430 | 2330 | ppb | < | .00222 | < .0000266 |
| 7.5 | CARB 430 | 19400 | ppb | .0362 | .0182 | .00047 |
| 7.4 | CARB 430 | 6840 | ppb | .0122 | .00463 | .000225 |
| 25.3 | CARB 430 | 35.5 | ppb | .000389 | .0000399 | .000000389 |
| 14.4 | CARB 430 | 5590 | ppb | .145 | .0129 | .0000807 |
| 25.4 | CARB 430 | 60.6 | ppb | .000733 | .0000796 | .000000697 |
| 14.3 | CARB 430 | .935 | ppb | .00000362 | .0000000989 | .0000000088 |
| 14.2 | CARB 430 | .603 | ppb | .00000162 | .000000459 | .0000000036 |
| 25.2 | CARB 430 | 5810 | ppb | .457 | .0116 | .000119 |
| 14.1 | CARB 430 | .941 | ppb | .0000033 | .000000998 | .0000000080 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|-----------|----------|--------|---------------|----------|----------|------------|
| 7.1 | CARB 430 | 22200 | ppb | .0394 | .0176 | .000657 |
| 11.3 | CARB 430 | 4620 | ppb | .19 | .0153 | .000463 |
| 27 | CARB 430 | 5980 | ppb | .228 | .00957 | .0000651 |
| 26 | CARB 430 | 21 | ppb | .0000949 | .000016 | .000000119 |
| 11.2 | CARB 430 | 4530 | ppb | .0118 | .00396 | .0000287 |
| 7.3 | CARB 430 | 30100 | ppb | .0838 | .0257 | .000527 |
| 3.8 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.6 | CARB 430 | ND | ppb | << | .00189 | << |
| 7.11 | CARB 430 | 34700 | ppb | .0646 | .0262 | .000873 |
| 10 | CARB 430 | 265000 | ppb | 7.88 | .724 | .00362 |
| 3.7 | CARB 430 | 15000 | ppb | .602 | .0245 | .000301 |
| 7.10 | CARB 430 | 25500 | ppb | .0475 | .0258 | .000641 |
| 7.14 | CARB 430 | 34100 | ppb | .0951 | .071 | .000634 |
| 3.5 | CARB 430 | ND | ppb | << | .00196 | << |
| 3.1 | CARB 430 | 41500 | ppb | 1.4 | .0846 | .000876 |
| 3.4 | CARB 430 | ND | ppb | << | .00202 | << |
| 3.2 | CARB 430 | 26000 | ppb | .939 | .0673 | .000522 |
| 7.13 | CARB 430 | 16200 | ppb | .27 | .0327 | .000409 |
| 7.8 | CARB 430 | 41400 | ppb | .117 | .0388 | .000561 |
| 7.12 | CARB 430 | 19900 | ppb | .00636 | .0183 | .0000306 |
| 3.3 | CARB 430 | 14900 | ppb | .577 | .0388 | .000288 |
| 3.9 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.12 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.10 | CARB 430 | 4800 | ppb | .198 | .00628 | .000099 |
| 3.11 | CARB 430 | 4300 | ppb | .168 | .00538 | .000084 |
| 3.21 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.16 | CARB 430 | 7200 | ppb | .133 | .00503 | .000205 |
| 3.14 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.19 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.17 | CARB 430 | 700 | ppb | .0112 | .000484 | .0000172 |
| 3.15 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.18 | CARB 430 | ND | ppb | NR | NR | NR |
| 3.13 | CARB 430 | ND | ppb | NR | NR | NR |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|---------------------------|-----------------|--------|---------------|----|-----------|----|------------|----|-------------|
| 3.20 | CARB 430 | ND | ppb | | NR | | NR | | NR |
| | | | Average: | | .34 | | .035 | | .000376 |
| | | | Total: | | 14.3 | | 1.47 | | .0158 |
| Methylene Chloride | | | | | | | | | |
| 3.6 | TO-14 | 42.3 | ppb | < | .00464 | < | .000227 | < | .00000232 |
| 3.3 | TO-14 | 37.3 | ppb | < | .00409 | < | .000277 | < | .00000204 |
| 3.7 | TO-14 | 6.37 | ppb | < | .000722 | < | .0000295 | < | .000000361 |
| 3.5 | TO-14 | 33 | ppb | | .00345 | | .000183 | | .00000192 |
| 3.1 | TO-14 | 20.7 | ppb | | .00199 | | .000119 | | .00000125 |
| 3.4 | TO-14 | 87.3 | ppb | | .0087 | | .0005 | | .00000543 |
| 3.8 | TO-14 | 5.4 | ppb | < | .000605 | < | .0000256 | < | .000000336 |
| 3.2 | TO-14 | 8.57 | ppb | | .000878 | | .000063 | | .000000488 |
| 3.15 | TO-14 | ND | ppb | << | .00106 | << | .0000396 | << | .000000662 |
| 3.17 | TO-14 | ND | ppb | << | .000455 | << | .0000196 | << | .0000007 |
| 3.10 | TO-14 | 7.77 | ppb | < | .000907 | < | .0000288 | < | .000000453 |
| 3.20 | TO-14 | 37 | ppb | | .00145 | | .0000736 | | .00000279 |
| 3.14 | TO-14 | ND | ppb | << | .00106 | << | .0000412 | << | .000000662 |
| 3.18 | TO-14 | 12.9 | ppb | | .000608 | | .0000256 | | .00000104 |
| 3.16 | TO-14 | 15 | ppb | < | .000781 | < | .0000297 | < | .0000012 |
| 3.21 | TO-14 | ND | ppb | << | .000344 | << | .0000199 | << | .000000662 |
| 3.11 | TO-14 | 4.53 | ppb | < | .000501 | < | .0000161 | < | .00000025 |
| 3.9 | TO-14 | 7 | ppb | < | .000757 | < | .0000348 | < | .000000473 |
| 3.12 | TO-14 | ND | ppb | << | .00116 | << | .0000361 | << | .000000644 |
| 3.19 | TO-14 | 57.3 | ppb | | .00236 | | .000116 | | .00000404 |
| 3.13 | TO-14 | ND | ppb | << | .00119 | << | .0000371 | << | .000000661 |
| | | | Average: | | .0018 | | .0000925 | | .00000135 |
| | | | Total: | | .0377 | | .00194 | | .0000284 |
| Naphthalene | | | | | | | | | |
| 4 | EPA Level 1 Pro | .08 | ppb | | .00000497 | | .000000444 | | .0000000029 |
| 25.4 | CARB 429 | 38.3 | ppb | | .00198 | | .000214 | | .00000188 |
| 25.1 | CARB 429 | 22 | ppb | | .000396 | | .0000662 | | .000000678 |
| 25.3 | CARB 429 | 3.8 | ppb | | .000178 | | .0000182 | | .000000178 |
| 7.12 | EPA 18 | ND | ppb | << | .0000681 | << | .000196 | << | .000000327 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|----------------|---------|----------|---------------|----------|-------|---------|----------|----------|---------------|
| | 7.13 | EPA 18 | ND | ppb | << | .00355 | << | .000431 | << .00000538 |
| | 25.2 | CARB 429 | 2.77 | ppb | | .000927 | | .0000237 | .000000241 |
| | 20.2 | CARB 410 | ND | ppb | << | .000787 | << | .000111 | << .00000135 |
| | 7.14 | EPA 18 | ND | ppb | << | .000594 | << | .000444 | << .00000396 |
| | 7.3 | EPA 18 | ND | ppb | << | .000594 | << | .000183 | << .00000374 |
| | 7.4 | EPA 18 | ND | ppb | << | .000379 | << | .000145 | << .00000702 |
| | 7.8 | EPA 18 | ND | ppb | << | .000601 | << | .0002 | << .00000289 |
| | 7.5 | EPA 18 | ND | ppb | << | .000397 | << | .0002 | << .00000516 |
| | 20.1 | CARB 410 | ND | ppb | << | .000587 | << | .0000833 | << .000001 |
| | 7.10 | EPA 18 | ND | ppb | << | .000397 | << | .000216 | << .00000536 |
| | 7.2 | EPA 18 | ND | ppb | << | .000379 | << | .000182 | << .00000632 |
| | 7.7 | EPA 18 | ND | ppb | << | .000601 | << | .000164 | << .00000289 |
| | 7.11 | EPA 18 | ND | ppb | << | .000397 | << | .000161 | << .00000536 |
| | 7.1 | EPA 18 | ND | ppb | << | .000379 | << | .000169 | << .00000632 |
| | 7.6 | EPA 18 | ND | ppb | << | .000397 | << | .000214 | << .00000516 |
| | | | | Average: | | .00068 | | .000171 | .00000326 |
| | | | | Total: | | .0136 | | .00342 | .0000652 |
| PAH | | | | | | | | | |
| | 25.3 | CARB 429 | 22.7 | ug/dscm | | .000196 | | .0000201 | .000000196 |
| | 25.4 | CARB 429 | 253 | ug/dscm | | .00242 | | .000261 | .0000023 |
| | 25.1 | CARB 429 | 173 | ug/dscm | | .000578 | | .0000965 | .000000988 |
| | 25.2 | CARB 429 | 17 | ug/dscm | | .00106 | | .0000269 | .000000275 |
| | 7.13 | | 119 | ug/dscm | | .00162 | | .000197 | .00000245 |
| | | | | Average: | | .00117 | | .00012 | .00000124 |
| | | | | Total: | | .00587 | | .000602 | .00000621 |
| Styrene | | | | | | | | | |
| | 3.8 | TO-14 | ND | ppb | << | .00137 | << | .000058 | << .000000761 |
| | 3.1 | TO-14 | ND | ppb | << | .00118 | << | .00007 | << .000000738 |
| | 3.2 | TO-14 | ND | ppb | << | .00125 | << | .0000898 | << .000000694 |
| | 3.7 | TO-14 | ND | ppb | << | .00139 | << | .0000567 | << .000000695 |
| | 3.3 | TO-14 | ND | ppb | << | .00135 | << | .0000901 | << .000000673 |
| | 3.5 | TO-14 | ND | ppb | << | .00128 | << | .000068 | << .000000711 |
| | 3.4 | TO-14 | ND | ppb | << | .00122 | << | .00007 | << .00000076 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|--------------------------|-----------------|--------|-----------------|-----------------|------------------|--------------------|
| 3.6 | TO-14 | ND | ppb | << | .00134 | << |
| 3.15 | TO-14 | ND | ppb | << | .0013 | << |
| 3.19 | TO-14 | ND | ppb | << | .000504 | << |
| 3.12 | TO-14 | ND | ppb | << | .00142 | << |
| 3.10 | TO-14 | ND | ppb | << | .00143 | << |
| 3.9 | TO-14 | ND | ppb | << | .00132 | << |
| 3.20 | TO-14 | ND | ppb | << | .000479 | << |
| 3.21 | TO-14 | ND | ppb | << | .000421 | << |
| 3.14 | TO-14 | ND | ppb | << | .0013 | << |
| 3.13 | TO-14 | ND | ppb | << | .00145 | << |
| 3.17 | TO-14 | ND | ppb | << | .000557 | << |
| 3.18 | TO-14 | ND | ppb | << | .000573 | << |
| 3.11 | TO-14 | ND | ppb | << | .00135 | << |
| 3.16 | TO-14 | ND | ppb | << | .000638 | << |
| Average: | | | | .0011 | .0000501 | .000000788 |
| Total: | | | | .0231 | .00105 | .0000165 |
| Tetrachloroethane | | | | | | |
| 4 | EPA Level 1 Pro | .34 | ppb | .0000277 | .00000248 | .0000000163 |
| | | | Average: | .0000277 | .00000248 | .0000000163 |
| | | | Total: | .0000277 | .00000248 | .0000000163 |
| Toluene | | | | | | |
| 3.6 | TO-14 | 13 | ppb | < | .00154 | < |
| 20.2 | CARB 410 | ND | ppb | << | .000283 | << |
| 3.2 | TO-14 | 12.1 | ppb | | .00134 | |
| 10 | CARB 410A | 84 | ppb | | .00767 | |
| 3.3 | TO-14 | 13.3 | ppb | | .00159 | |
| 11.2 | CARB 410A | 24.3 | ppb | | .000193 | |
| 20.1 | CARB 410 | 110 | ppb | | .00231 | |
| 3.4 | TO-14 | 58.7 | ppb | | .00634 | |
| 3.8 | TO-14 | 85.3 | ppb | | .0103 | |
| 11.1 | CARB 410A | 17 | ppb | | .000216 | |
| 25.1 | CARB 410A | 37.3 | ppb | | .000481 | |
| 11.3 | CARB 410A | 67 | ppb | | .00844 | |
| | | | | | | |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|-----------|-----------------|--------|---------------|------------|-------------|---------------|
| 3.7 | TO-14 | | 56.7 ppb | .00697 | .000284 | .00000349 |
| 3.5 | TO-14 | | 77.7 ppb | .00879 | .000467 | .00000489 |
| 25.2 | CARB 410A | | 40.7 ppb | .00982 | .000249 | .00000255 |
| 7.13 | CARB 410A | | 235 ppb | .012 | .00145 | .0000181 |
| 7.3 | CARB 410A | | 98 ppb | .000837 | .000258 | .00000526 |
| 7.11 | CARB 410A | | 115 ppb | .000656 | .000266 | .00000885 |
| 7.4 | CARB 410A | | 1550 ppb | .00845 | .00322 | .000156 |
| 7.1 | CARB 410A | | 385 ppb | .0021 | .000936 | .000035 |
| 7.12 | CARB 410A | | 160 ppb | .000156 | .00045 | .000000752 |
| 7.10 | CARB 410A | | 165 ppb | .00094 | .000512 | .0000127 |
| 7.5 | CARB 410A | | 123 ppb | .000703 | .000354 | .00000914 |
| 4 | EPA Level 1 Pro | 64.4 | ppb | .00288 | .000257 | .00000169 |
| 7.2 | CARB 410A | | 370 ppb | .00202 | .000968 | .0000336 |
| 7.14 | CARB 410A | | 715 ppb | .0061 | .00456 | .0000407 |
| 7.8 | CARB 410A | | 92 ppb | .000793 | .000264 | .00000381 |
| 7.6 | CARB 410A | | 115 ppb | .000656 | .000354 | .00000851 |
| 25.3 | CARB 410A | | 35.7 ppb | .0012 | .000122 | .0000012 |
| 7.7 | CARB 410A | | 215 ppb | .00186 | .000506 | .00000892 |
| 25.4 | CARB 410A | | 147 ppb | .00544 | .000587 | .00000518 |
| 3.1 | TO-14 | | 11.7 ppb | .00122 | .0000723 | .000000763 |
| 3.10 | TO-14 | | 117 ppb | .0148 | .000468 | .00000738 |
| 3.9 | TO-14 | | 220 ppb | .0258 | .00118 | .0000161 |
| 3.21 | TO-14 | ND | ppb | << | .0000372 << | .0000215 << |
| 3.16 | TO-14 | | 37.3 ppb | .00211 | .00008 | .00000325 |
| 3.18 | TO-14 | | 80.3 ppb | .00407 | .000172 | .00000696 |
| 3.19 | TO-14 | | 23.7 ppb | < .00105 | < .000052 | < .0000018 |
| 3.11 | TO-14 | | 4.03 ppb | .000483 | .0000155 | .000000242 |
| 3.14 | TO-14 | | 200 ppb | .023 | .000891 | .0000144 |
| 3.15 | TO-14 | | 22.3 ppb | .00257 | .0000958 | .0000016 |
| 3.13 | TO-14 | | 9.57 ppb | .00123 | .0000384 | .000000681 |
| 3.20 | TO-14 | | 56 ppb | .00237 | .00012 | .00000456 |
| 3.12 | TO-14 | | 153 ppb | .0192 | .000599 | .0000107 |
| 3.17 | TO-14 | ND | ppb | << .000493 | << .0000212 | << .000000758 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP | |
|-----------------------|-----------|--------|-----------------|----|----------|----------------|----------|-----------------|-------------|-------------------|
| | | | Average: | | | .00471 | | .00051 | | .0000105 |
| | | | Total: | | | .212 | | .0229 | | .000472 |
| Vinyl Chloride | | | | | | | | | | |
| 3.5 | TO-14 | ND | ppb | << | .000769 | << | .0000409 | << | .000000427 | |
| 3.6 | TO-14 | ND | ppb | << | .000807 | << | .0000394 | << | .000000404 | |
| 3.1 | TO-14 | ND | ppb | << | .00071 | << | .0000421 | << | .000000444 | |
| 3.2 | TO-14 | ND | ppb | << | .000752 | << | .000054 | << | .000000418 | |
| 3.7 | TO-14 | ND | ppb | << | .000836 | << | .0000341 | << | .000000418 | |
| 3.4 | TO-14 | ND | ppb | << | .000733 | << | .0000421 | << | .000000458 | |
| 3.3 | TO-14 | ND | ppb | << | .000808 | << | .0000542 | << | .000000404 | |
| 3.8 | TO-14 | ND | ppb | << | .000823 | << | .0000349 | << | .000000457 | |
| 3.10 | TO-14 | ND | ppb | << | .00086 | << | .0000273 | << | .00000043 | |
| 3.17 | TO-14 | ND | ppb | << | .000335 | << | .0000144 | << | .000000515 | |
| 3.18 | TO-14 | ND | ppb | << | .000345 | << | .0000146 | << | .00000059 | |
| 3.16 | TO-14 | ND | ppb | << | .000383 | << | .0000146 | << | .000000589 | |
| 3.19 | TO-14 | ND | ppb | << | .000303 | << | .0000149 | << | .000000518 | |
| 3.9 | TO-14 | ND | ppb | << | .000796 | << | .0000366 | << | .000000498 | |
| 3.15 | TO-14 | ND | ppb | << | .000781 | << | .0000291 | << | .000000488 | |
| 3.21 | TO-14 | ND | ppb | << | .000253 | << | .0000146 | << | .000000487 | |
| 3.20 | TO-14 | ND | ppb | << | .000288 | << | .0000146 | << | .000000554 | |
| 3.14 | TO-14 | ND | ppb | << | .000781 | << | .0000303 | << | .000000488 | |
| 3.12 | TO-14 | ND | ppb | << | .000852 | << | .0000265 | << | .000000473 | |
| 3.13 | TO-14 | ND | ppb | << | .000874 | << | .0000273 | << | .000000486 | |
| 3.11 | TO-14 | ND | ppb | << | .000814 | << | .0000261 | << | .000000407 | |
| | | | Average: | | | .000662 | | .0000301 | | .000000474 |
| | | | Total: | | | .0139 | | .000633 | | .00000995 |
| Xylene | | | | | | | | | | |
| 11.2 | CARB 410A | ND | ppb | << | .0000917 | << | .0000309 | << | .000000224 | |
| 7.7 | CARB 410A | 57 | ppb | | .000568 | | .000155 | | .00000273 | |
| 11.1 | CARB 410A | ND | ppb | << | .000146 | << | .0000409 | << | .0000000811 | |
| 7.3 | CARB 410A | 172 | ppb | | .00169 | | .000518 | | .0000106 | |
| 7.6 | CARB 410A | 33.5 | ppb | | .00022 | | .000119 | | .00000286 | |
| 3.7 | TO-14 | 14 | ppb | | .00198 | | .0000809 | | .00000099 | |

| Pollutant | Test ID | Method | Concentration | | lb/hr | lb/MMBtu | lb/hr-HP |
|-----------|-----------------|--------|---------------|----|----------|----------|--------------|
| 7.10 | CARB 410A | 55.5 | ppb | | .000364 | .000198 | .00000492 |
| 7.5 | CARB 410A | 43.5 | ppb | | .000286 | .000144 | .00000372 |
| 3.8 | TO-14 | 25.3 | ppb | | .00353 | .000149 | .00000196 |
| 7.8 | CARB 410A | 20.5 | ppb | | .000204 | .0000678 | .00000098 |
| 10 | CARB 410A | 74.3 | ppb | | .00781 | .000717 | .0000036 |
| 7.4 | CARB 410A | 315 | ppb | | .00197 | .000754 | .0000366 |
| 7.13 | CARB 410A | 47.3 | ppb | | .00279 | .000338 | .00000422 |
| 3.2 | TO-14 | ND | ppb | << | .00128 | << | .00000915 << |
| 25.2 | CARB 410A | 88.7 | ppb | | .0247 | .000626 | .00000642 |
| 3.3 | TO-14 | ND | ppb | << | .00137 | << | .00000919 << |
| 3.1 | TO-14 | ND | ppb | << | .00121 | << | .00000713 << |
| 25.4 | CARB 410A | 40.3 | ppb | | .00172 | .000186 | .00000164 |
| 25.1 | CARB 410A | 18.7 | ppb | | .000277 | .0000465 | .000000474 |
| 20.1 | CARB 410 | ND | ppb | << | .000486 | << | .0000069 << |
| 3.4 | TO-14 | ND | ppb | << | .00124 | << | .00000713 << |
| 11.3 | CARB 410A | ND | ppb | << | .00145 | << | .0000117 << |
| 4 | EPA Level 1 Pro | 19 | ppb | | .000978 | .0000873 | .000000575 |
| 20.2 | CARB 410 | ND | ppb | << | .000652 | << | .00000925 << |
| 7.12 | CARB 410A | 31.5 | ppb | | .0000355 | .000102 | .000000171 |
| 3.5 | TO-14 | ND | ppb | << | .0013 | << | .00000693 << |
| 7.1 | CARB 410A | 94 | ppb | | .00059 | .000263 | .00000983 |
| 25.3 | CARB 410A | 98 | ppb | | .00379 | .000388 | .00000379 |
| 7.2 | CARB 410A | 105 | ppb | | .000659 | .000316 | .000011 |
| 7.11 | CARB 410A | 33.5 | ppb | | .00022 | .0000893 | .00000297 |
| 3.6 | TO-14 | ND | ppb | << | .00137 | << | .00000668 << |
| 7.14 | CARB 410A | 218 | ppb | | .00214 | .0016 | .0000143 |
| 3.21 | TO-14 | ND | ppb | << | .000429 | << | .00000248 << |
| 3.18 | TO-14 | 20 | ppb | | .00117 | .0000492 | .00000199 |
| 3.9 | TO-14 | 71 | ppb | | .00958 | .00044 | .00000599 |
| 3.17 | TO-14 | ND | ppb | << | .000568 | << | .00000244 << |
| 3.16 | TO-14 | 9.33 | ppb | < | .000607 | < | .0000023 < |
| 3.19 | TO-14 | 9.83 | ppb | < | .000505 | < | .00000249 < |
| 3.15 | TO-14 | 5.9 | ppb | < | .000781 | < | .00000291 < |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|-----------|---------|--------|---------------|-----------|-------------|--------------|
| 3.12 | TO-14 | | 62.3 ppb | .00899 | .00028 | .000005 |
| 3.14 | TO-14 | | 60 ppb | .00796 | .000308 | .00000497 |
| 3.11 | TO-14 | | ND ppb | << .00138 | << .0000442 | << .00000069 |
| 3.13 | TO-14 | | 4.67 ppb | < .000692 | < .0000216 | < .000000384 |
| 3.20 | TO-14 | | 13.7 ppb | < .000665 | < .0000339 | < .00000128 |
| 3.10 | TO-14 | | 44.3 ppb | .00647 | .000205 | .00000324 |
| | | | Average: | .00238 | .000206 | .0000036 |
| | | | Total: | .107 | .00927 | .000162 |

ATTACHMENT 2

Summary of HAP Test Data for Diesel-Fired RICE

Summary of HAP Test Data for Diesel-Fired IC Engines

19-Mar-96

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|----------------------|--------------|--------|---------------|----|----------|----|-----------|----|-------------|
| 1,3-Butadiene | | | | | | | | | |
| 16 | CARB 422.102 | 487 | ppb | | .00126 | | .00312 | | .00000754 |
| 8.3 | CARB 410A | ND | ppb | << | .0000568 | << | .0000146 | << | .0000000668 |
| | | | Average: | | .000658 | | .00157 | | .0000038 |
| | | | Total: | | .00132 | | .00313 | | .00000761 |
| Acetaldehyde | | | | | | | | | |
| 1 | CARB 429 | 340 | ppb | | .00174 | | .00107 | | .00000497 |
| 16 | CARB 430 | 1170 | ppb | | .00246 | | .00608 | | .0000146 |
| 15.1 | CARB 430 | 12.3 | ppb | | .0000986 | | .0000252 | | .000000116 |
| 15.2 | CARB 430 | 91.3 | ppb | | .000518 | | .000466 | | .00000148 |
| | | | Average: | | .0012 | | .00191 | | .00000529 |
| | | | Total: | | .00482 | | .00764 | | .0000212 |
| Acrolein | | | | | | | | | |
| 16 | CARB 430 | 64.2 | ppb | | .000172 | | .000425 | | .00000103 |
| 1 | CARB 429 | 14 | ppb | < | .0000911 | < | .000056 | < | .00000026 |
| 15.2 | CARB 430 | 20.7 | ppb | | .000149 | | .000134 | | .000000427 |
| 15.1 | CARB 430 | 3 | ppb | < | .0000305 | < | .0000078 | < | .000000359 |
| | | | Average: | | .000111 | | .000156 | | .000000438 |
| | | | Total: | | .000443 | | .000623 | | .00000175 |
| Benzene | | | | | | | | | |
| 15.2 | CARB 410A | 147 | ppb | | .00148 | | .00133 | | .00000422 |
| 8.3 | CARB 410A | 429 | ppb | | .00607 | | .00156 | | .00000714 |
| 5 | CARB 410A | 580 | ppb | | .00768 | | .00203 | | .0000151 |
| 15.1 | CARB 410A | 213 | ppb | | .00302 | | .000772 | | .00000355 |
| 16 | CARB 410A | 193 | ppb | | .000723 | | .00179 | | .00000431 |
| 1 | CARB 410A | 95 | ppb | | .000977 | | .000535 | | .00000279 |
| 12.1 | CARB 0030 | 31 | ppb | | .00151 | | .000118 | | .00000119 |
| | | | Average: | | .00307 | | .00116 | | .00000547 |
| | | | Total: | | .0215 | | .00814 | | .0000383 |
| Beryllium | | | | | | | | | |
| 12.1 | See Note | ND | ug/dscm | << | .0000149 | << | .00000119 | << | .0000000118 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|---------------------|---------|-----------|---------------|-------------|---------------|----------------|
| | 12.7 | See Note | 2.2 ug | NR | NR | NR |
| | 12.4 | See Note | ND ug/dscm | << .0000134 | << .00000157 | << .0000000132 |
| | 12.6 | See Note | ND ug/dscm | << .0000108 | << .000000984 | << .0000000085 |
| | | | Average: | .000013 | .00000125 | .0000000112 |
| | | | Total: | .0000391 | .00000374 | .0000000335 |
| Cadmium | | | | | | |
| | 12.1 | See Note | 69.5 ug/dscm | .00104 | .000084 | .000000814 |
| | 12.6 | See Note | 1.11 ug/dscm | .0000151 | .00000137 | .0000000119 |
| | 12.7 | See Note | 3.2 ug | NR | NR | NR |
| | 12.4 | See Note | 3.74 ug/dscm | < .0000506 | < .0000503 | < .000000498 |
| | | | Average: | .00037 | .0000301 | .000000292 |
| | | | Total: | .00111 | .0000904 | .000000876 |
| Chromium | | | | | | |
| | 16 | CARB 425 | 1.56 ug/dscm | .00000178 | .00000441 | .0000000106 |
| | 12.7 | See Note | 3.33 ug | NR | NR | NR |
| | 12.1 | See Note | 1.97 ug/dscm | .0000293 | .00000233 | .0000000231 |
| | 12.4 | See Note | 3.95 ug/dscm | .0000527 | .00000634 | .0000000519 |
| | 12.6 | See Note | 4.35 ug/dscm | .0000591 | .00000545 | .0000000465 |
| | | | Average: | .0000358 | .00000463 | .000000033 |
| | | | Total: | .000143 | .0000185 | .000000132 |
| Ethylbenzene | | | | | | |
| | 16 | CARB 422 | 6.27 ppb | .0000318 | .0000788 | .00000019 |
| | 5 | CARB 410A | 10.1 ppb | .000182 | .0000481 | .000000357 |
| | 8.3 | CARB 410A | 11 ppb | < .000212 | < .0000544 | < .00000025 |
| | | | Average: | .000142 | .0000604 | .000000266 |
| | | | Total: | .000426 | .000181 | .000000797 |
| Formaldehyde | | | | | | |
| | 12.1 | CARB 430 | 130 ppb | < .00248 | < .00019 | < .00000196 |
| | 12.2 | CARB 430 | ND ppb | << .00122 | << .000142 | << .00000113 |
| | 15.2 | CARB 430 | 284 ppb | .0011 | .000988 | .00000313 |
| | 15.1 | CARB 430 | 56.3 ppb | .000307 | .0000783 | .000000361 |
| | 13 | CARB 430 | 1.99 ppb | .000061 | .00000342 | .0000000135 |
| | 12.7 | CARB 430 | 173 ppb | < .00326 | < .000266 | < .00000257 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | lb/MMBtu | | lb/hr-HP | |
|------------------|-----------|--------|---------------|----|-----------------|----------|------------------|----------|-------------------|
| 12.5 | CARB 430 | ND | ppb | << | .00128 | << | .0000995 | << | .00000101 |
| 12.6 | CARB 430 | 160 | ppb | | .00273 | | .000246 | | .00000215 |
| 12.3 | CARB 430 | 307 | ppb | | .0047 | | .000433 | | .00000617 |
| 16 | CARB 430 | 3520 | ppb | | .00506 | | .0125 | | .0000302 |
| 8.3 | CARB 430 | ND | ppb | << | .000544 | << | .00014 | << | .00000064 |
| 9 | CARB 430 | 5330 | ppb | | .148 | | .0313 | | .0000925 |
| 19.2 | CARB 430 | 58.4 | ppb | | .000145 | | .000118 | | .000000632 |
| 17 | CARB 430 | 133 | ppb | | .000748 | | .000177 | | .0000012 |
| 1 | CARB 430 | 647 | ppb | | .00226 | | .00138 | | .00000644 |
| 18 | CARB 430 | 17.8 | ppb | | .0000503 | | .000101 | | .0000000628 |
| 5 | CARB 430 | 772 | ppb | | .00394 | | .00104 | | .00000772 |
| 23 | CARB 430 | 68.7 | ppb | | .00025 | | .000111 | | .00000109 |
| Average: | | | | | .0099 | | .00274 | | .00000883 |
| Total: | | | | | .178 | | .0493 | | .000159 |
| Hexane | | | | | | | | | |
| 5 | CARB 410A | ND | ppb | << | .0000394 | << | .0000104 | << | .0000000772 |
| 16 | CARB 422 | 18.3 | ppb | | .0000759 | | .00019 | | .000000453 |
| Average: | | | | | .0000576 | | .0001 | | .000000265 |
| Total: | | | | | .000115 | | .0002 | | .00000053 |
| Lead | | | | | | | | | |
| 12.6 | See Note | 4.6 | ug/dscm | | .0000622 | | .00000561 | | .0000000489 |
| 12.1 | CARB 12 | 8.78 | ug/dscm | | .000129 | | .0000109 | | .000000102 |
| 12.1 | See Note | 3.69 | ug/dscm | | .0000553 | | .00000438 | | .0000000436 |
| 12.4 | See Note | 9.53 | ug/dscm | | .000128 | | .0000137 | | .000000126 |
| 12.7 | See Note | 11.5 | ug | | NR | | NR | | NR |
| Average: | | | | | .0000935 | | .00000865 | | .00000008 |
| Total: | | | | | .000374 | | .0000346 | | .00000032 |
| Manganese | | | | | | | | | |
| 12.7 | See Note | 48.8 | ug | | NR | | NR | | NR |
| 12.1 | See Note | 11.4 | ug/dscm | | .000171 | | .0000133 | | .000000135 |
| 12.6 | See Note | 16.5 | ug/dscm | | .000222 | | .0000197 | | .000000174 |
| 12.4 | See Note | 33.9 | ug/dscm | | .000452 | | .000053 | | .000000445 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|--------------------|---------------|--------|---------------|------------|-------------|-------------|
| | | | Average: | .000282 | .0000287 | .000000251 |
| | | | Total: | .000845 | .000086 | .000000754 |
| Mercury | | | | | | |
| 12.7 | See Note | 1.73 | ug | NR | NR | NR |
| 12.4 | See Note | 2.64 | ug/dscm | .0000353 | .00000448 | .0000000347 |
| 12.6 | See Note | .285 | ug/dscm | .00000385 | .000000344 | .0000000030 |
| 12.1 | See Note | .816 | ug/dscm | .0000122 | .00000095 | .0000000095 |
| | | | Average: | .0000171 | .00000192 | .0000000158 |
| | | | Total: | .0000514 | .00000577 | .0000000473 |
| Naphthalene | | | | | | |
| 9 | CARB 429 | 29.6 | ppb | .0035 | .000741 | .00000219 |
| 8.2 | CARB 429 | 12 | ppb | .000278 | .0000715 | .000000328 |
| 12.1 | CARB 429 | 47.1 | ppb | .00374 | .000294 | .00000295 |
| 13 | CARB 429 | ND | ppb | NR | NR | NR |
| 12.5 | CARB 429 | 62.6 | ppb | .00491 | .000379 | .00000387 |
| 8.1 | CARB 429 | 30 | ppb | .000584 | .000179 | .000000859 |
| 15.1 | Modified CARB | 21.9 | ppb | .000508 | .00013 | .000000598 |
| 12.7 | CARB 429 | 37.1 | ppb | .00299 | .000242 | .00000236 |
| 23 | CARB 429 | 15.8 | ppb | .000223 | .000106 | .000000973 |
| 15.2 | Modified CARB | 7.87 | ppb | .00013 | .000117 | .000000371 |
| 19.1 | CARB 429 | 69.4 | ppb | .000708 | .00103 | .00000308 |
| 1 | CARB 429 | 5.98 | ppb | .0000898 | .0000532 | .000000257 |
| 18 | CARB 429 | 12.9 | ppb | .000155 | .000314 | .000000194 |
| 5 | CARB 429 | 35.2 | ppb | .000765 | .000202 | .0000015 |
| 12.2 | CARB 429 | 41 | ppb | .00305 | .000356 | .00000282 |
| 12.3 | CARB 429 | 48.4 | ppb | .00321 | .000292 | .00000422 |
| 16 | CARB 429 | 12.1 | ppb | .0000745 | .000185 | .000000444 |
| 17 | CARB 429 | 2.9 | ppb | .0000697 | .0000164 | .000000111 |
| | | | Average: | .00147 | .000277 | .00000159 |
| | | | Total: | .025 | .00471 | .0000271 |
| Nickel | | | | | | |
| 12.4 | See Note | 4.81 | ug/dscm < | .0000643 < | .00000759 < | .0000000633 |
| 12.7 | See Note | 8.9 | ug | NR | NR | NR |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP | |
|-----------------|---------|---------------|---------------|----------|----------|----------|-----------|-----------|-------------|-------------|
| | 12.6 | See Note | 3.92 | ug/dscm | .0000532 | | .00000482 | | .0000000419 | |
| | 12.1 | See Note | 3.85 | ug/dscm | < | .0000575 | < | .00000456 | < | .0000000453 |
| | | | | Average: | .0000583 | | .00000567 | | .00000005 | |
| | | | | Total: | .000175 | | .000017 | | .00000015 | |
| PAH | | | | | | | | | | |
| | 23 | CARB 429 | 110 | ug/dscm | .000291 | | .000138 | | .00000126 | |
| | 16 | CARB 429 | 218 | ug/dscm | .000248 | | .000614 | | .00000148 | |
| | 12.3 | CARB 429 | 1230 | ug/dscm | .0154 | | .0014 | | .0000202 | |
| | 12.2 | CARB 429 | 1070 | ug/dscm | .015 | | .00176 | | .0000139 | |
| | 17 | CARB 429 | 21 | ug/dscm | .0000948 | | .0000222 | | .000000152 | |
| | 1 | CARB 429 | 106 | ug/dscm | .000295 | | .000175 | | .000000843 | |
| | 18 | CARB 429 | 95.7 | ug/dscm | .000213 | | .000429 | | .000000266 | |
| | 19.1 | CARB 429 | 504 | ug/dscm | .000967 | | .00139 | | .0000042 | |
| | 5 | CARB 429 | 255 | ug/dscm | .00104 | | .000275 | | .00000205 | |
| | 15.1 | Modified CARB | 190 | ug/dscm | .000829 | | .000212 | | .000000975 | |
| | 8.1 | CARB 429 | 240 | ug/dscm | .000878 | | .000269 | | .00000129 | |
| | 12.5 | CARB 429 | 968 | ug/dscm | .0142 | | .0011 | | .0000112 | |
| | 13 | CARB 429 | 1.41 | ug/dscm | .0000345 | | .00000194 | | .0000000076 | |
| | 12.7 | CARB 429 | 1010 | ug/dscm | .0153 | | .00124 | | .0000121 | |
| | 9 | CARB 429 | 321 | ug/dscm | .00718 | | .00152 | | .00000449 | |
| | 8.2 | CARB 429 | 93.5 | ug/dscm | .000408 | | .000105 | | .00000048 | |
| | 12.1 | CARB 429 | 1080 | ug/dscm | .0163 | | .00126 | | .0000129 | |
| | 15.2 | Modified CARB | 57.7 | ug/dscm | .000179 | | .00016 | | .000000511 | |
| | | | | Average: | .00494 | | .000671 | | .00000491 | |
| | | | | Total: | .0889 | | .0121 | | .0000883 | |
| Selenium | | | | | | | | | | |
| | 12.1 | See Note | ND | ug/dscm | << | .0000597 | << | .00000475 | << | .000000047 |
| | 12.7 | See Note | ND | ug | | NR | | NR | | NR |
| | 12.4 | See Note | ND | ug/dscm | << | .0000536 | << | .00000627 | << | .0000000528 |
| | 12.6 | See Note | ND | ug/dscm | << | .0000406 | << | .00000369 | << | .000000032 |
| | | | | Average: | .0000513 | | .0000049 | | .000000044 | |
| | | | | Total: | .000154 | | .0000147 | | .000000132 | |
| Toluene | | | | | | | | | | |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP | | |
|-----------------|---------|-----------|---------------|---------------|----------------|------------------|------------|------------|
| | 16 | CARB 422 | 105 | ppb | .000462 | .00114 | .00000276 | |
| | 15.2 | CARB 410A | 50 | ppb | .000593 | .000533 | .00000169 | |
| | 8.3 | CARB 410A | 65.7 | ppb | .0011 | .000281 | .00000129 | |
| | 12.1 | CARB 0030 | 316 | ppb | .0183 | .00143 | .0000144 | |
| | 5 | CARB 410A | 147 | ppb | .00229 | .000604 | .00000449 | |
| | 1 | CARB 410A | 39.7 | ppb | .00048 | .000263 | .00000137 | |
| | 15.1 | CARB 410A | 63.7 | ppb | .00106 | .000272 | .00000125 | |
| Average: | | | | .00347 | .000646 | .00000389 | | |
| Total: | | | | .0243 | .00452 | .0000272 | | |
| Xylene | | | | | | | | |
| | 5 | CARB 410A | 22.7 | ppb | .000407 | .000107 | .000000797 | |
| | 1 | CARB 410A | 40.7 | ppb | .000567 | .000311 | .00000162 | |
| | 12.1 | CARB 0030 | 288 | ppb | .0192 | .0015 | .0000151 | |
| | 8.3 | CARB 410A | 16 | ppb | < | .0000791 | < | .000000362 |
| | 15.1 | CARB 410A | 39.7 | ppb | .000763 | .000195 | .000000897 | |
| | 15.2 | CARB 410A | 21 | ppb | .000287 | .000258 | .000000816 | |
| | 16 | CARB 422 | 27.7 | ppb | .000141 | .000348 | .000000839 | |
| Average: | | | | .0031 | .0004 | .00000292 | | |
| Total: | | | | .0217 | .0028 | .0000204 | | |

ATTACHMENT 3

Summary of HAP Test Data for Digester Gas-Fired RICE`

Summary of HAP Test Data for Digester Gas-Fired IC Engines

19-Mar-96

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|------------------------------|----------|--------|---------------|----|-----------------|----|----------------|----|-------------------|
| 1,1,1-Trichloroethane | | | | | | | | | |
| 2.7 | CARB 422 | ND | ppb | << | .0000358 | << | .000023 | << | .0000000682 |
| 2.6 | CARB 422 | ND | ppb | << | .000102 | << | .000015 | << | .000000123 |
| 2.16 | CARB 422 | ND | ppb | << | .0000475 | << | .000012 | << | .000000297 |
| 2.4 | CARB 422 | ND | ppb | << | .000112 | << | .000015 | << | .000000102 |
| 2.1 | CARB 422 | ND | ppb | << | .00026 | << | .0000297 | << | .000000173 |
| 2.13 | CARB 422 | ND | ppb | << | .0000703 | << | .0000112 | << | .000000275 |
| 2.11 | CARB 422 | ND | ppb | << | .0000647 | << | .000023 | << | .000000216 |
| 2.3 | CARB 422 | ND | ppb | << | .000112 | << | .000015 | << | .000000113 |
| 2.12 | CARB 422 | ND | ppb | << | .00007 | << | .0000112 | << | .000000312 |
| 2.9 | CARB 422 | ND | ppb | << | .0000647 | << | .000023 | << | .000000216 |
| 2.5 | CARB 422 | ND | ppb | << | .0000746 | << | .000015 | << | .0000000902 |
| 2.10 | CARB 422 | ND | ppb | << | .0000647 | << | .000023 | << | .000000216 |
| 2.17 | CARB 422 | ND | ppb | << | .000046 | << | .000012 | << | .000000288 |
| 2.2 | CARB 422 | ND | ppb | << | .000112 | << | .000015 | << | .000000113 |
| 2.8 | CARB 422 | ND | ppb | << | .0000483 | << | .000023 | << | .000000092 |
| 2.14 | CARB 422 | ND | ppb | << | .0000695 | << | .0000114 | << | .000000217 |
| 2.15 | CARB 422 | ND | ppb | << | .0000521 | << | .000012 | << | .000000465 |
| Average: | | | | | .0000827 | | .000017 | | .000000199 |
| Total: | | | | | .00141 | | .00029 | | .00000338 |
| 1,3-Butadiene | | | | | | | | | |
| 2.12 | CARB 422 | ND | ppb | << | .000191 | << | .0000306 | << | .000000853 |
| 2.15 | CARB 422 | ND | ppb | << | .000142 | << | .0000327 | << | .00000127 |
| 2.14 | CARB 422 | ND | ppb | << | .00019 | << | .0000312 | << | .000000594 |
| 2.11 | CARB 422 | ND | ppb | << | .000177 | << | .0000628 | << | .00000059 |
| 2.4 | CARB 422 | ND | ppb | << | .000306 | << | .000041 | << | .000000278 |
| 2.7 | CARB 422 | ND | ppb | << | .00000979 | << | .00000628 | << | .0000000186 |
| 2.6 | CARB 422 | ND | ppb | << | .00028 | << | .000041 | << | .000000339 |
| 2.16 | CARB 422 | ND | ppb | << | .00013 | << | .0000327 | << | .000000812 |
| 2.2 | CARB 422 | ND | ppb | << | .000306 | << | .000041 | << | .000000309 |
| 2.1 | CARB 422 | ND | ppb | << | .000071 | << | .00000811 | << | .0000000473 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|---------------------|-----------|--------|---------------|-----------------|-----------------|----------------------------|
| 2.10 | CARB 422 | ND | ppb | << | .000177 | << .0000628 << .00000059 |
| 2.13 | CARB 422 | ND | ppb | << | .000192 | << .0000306 << .00000075 |
| 2.17 | CARB 422 | ND | ppb | << | .000126 | << .0000327 << .000000788 |
| 2.5 | CARB 422 | ND | ppb | << | .000204 | << .000041 << .000000247 |
| 2.9 | CARB 422 | ND | ppb | << | .000177 | << .0000628 << .00000059 |
| 2.8 | CARB 422 | ND | ppb | << | .000132 | << .0000628 << .000000251 |
| 2.3 | CARB 422 | ND | ppb | << | .000306 | << .000041 << .000000309 |
| Average: | | | | .000183 | .0000389 | .000000508 |
| Total: | | | | .00312 | .000661 | .00000864 |
| 1,4-Dioxane | | | | | | |
| 2.6 | CARB 422 | ND | ppb | << | .0001 | << .0000147 << .000000121 |
| 2.2 | CARB 422 | ND | ppb | << | .00011 | << .0000147 << .000000111 |
| 2.15 | CARB 422 | ND | ppb | << | .000051 | << .0000117 << .000000455 |
| 2.12 | CARB 422 | ND | ppb | << | .0000686 | << .000011 << .000000306 |
| 2.4 | CARB 422 | ND | ppb | << | .00011 | << .0000147 << .0000001 |
| 2.7 | CARB 422 | ND | ppb | << | .0000351 | << .0000225 << .0000000669 |
| 2.14 | CARB 422 | ND | ppb | << | .0000681 | << .0000112 << .000000213 |
| 2.16 | CARB 422 | ND | ppb | << | .0000465 | << .0000117 << .000000291 |
| 2.8 | CARB 422 | ND | ppb | << | .0000473 | << .0000225 << .0000000901 |
| 2.9 | CARB 422 | ND | ppb | << | .0000634 | << .0000225 << .000000211 |
| 2.10 | CARB 422 | ND | ppb | << | .0000634 | << .0000225 << .000000211 |
| 2.17 | CARB 422 | ND | ppb | << | .000045 | << .0000117 << .000000281 |
| 2.3 | CARB 422 | ND | ppb | << | .00011 | << .0000147 << .000000111 |
| 2.1 | CARB 422 | ND | ppb | << | .000255 | << .0000291 << .00000017 |
| 2.5 | CARB 422 | ND | ppb | << | .0000731 | << .0000147 << .0000000884 |
| 2.11 | CARB 422 | ND | ppb | << | .0000634 | << .0000225 << .000000211 |
| 2.13 | CARB 422 | ND | ppb | << | .0000689 | << .000011 << .000000269 |
| Average: | | | | .0000811 | .0000167 | .000000194 |
| Total: | | | | .00138 | .000283 | .00000331 |
| Acetaldehyde | | | | | | |
| 2.13 | EPA TO-11 | 24.4 | ppb | .000153 | .0000244 | .000000596 |
| 2.14 | EPA TO-11 | 71.4 | ppb | .000441 | .0000728 | .00000138 |
| 2.6 | EPA TO-11 | 15.8 | ppb | .000144 | .0000212 | .000000174 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|-----------------|-----------|--------|---------------|----------|-----------|-------------|
| 2.16 | EPA TO-11 | 27 | ppb | .000114 | .0000288 | .000000714 |
| 2.3 | EPA TO-11 | 15.6 | ppb | .000155 | .0000208 | .000000157 |
| 2.15 | EPA TO-11 | 1.8 | ppb | < | .00000834 | < |
| 2.7 | EPA TO-11 | 26.8 | ppb | .0000856 | .000055 | .000000163 |
| 2.9 | EPA TO-11 | 4.5 | ppb | .000026 | .00000923 | .0000000866 |
| 2.5 | EPA TO-11 | 1.35 | ppb | < | .00000899 | < |
| 2.17 | EPA TO-11 | 61.4 | ppb | .000252 | .0000654 | .00000157 |
| 2.2 | EPA TO-11 | 19.2 | ppb | .000191 | .0000256 | .000000192 |
| 2.11 | EPA TO-11 | ND | ppb | << | .00000346 | << |
| 2.1 | EPA TO-11 | 3.1 | ppb | < | .000072 | < |
| 2.12 | EPA TO-11 | 29.8 | ppb | .000186 | .0000298 | .000000833 |
| 2.4 | EPA TO-11 | 11.3 | ppb | .000112 | .0000151 | .000000102 |
| 2.10 | EPA TO-11 | ND | ppb | << | .00000346 | << |
| 2.8 | EPA TO-11 | 50.5 | ppb | .000217 | .000104 | .000000414 |
| Average: | | | | .000128 | .0000286 | .000000385 |
| Total: | | | | .00217 | .000486 | .00000654 |
| Acrolein | | | | | | |
| 2.12 | EPA TO-11 | 16.8 | ppb | .000133 | .0000213 | .000000593 |
| 2.10 | EPA TO-11 | ND | ppb | << | .00000293 | << |
| 2.3 | EPA TO-11 | 3.35 | ppb | < | .0000425 | < |
| 2.7 | EPA TO-11 | .95 | ppb | < | .00000386 | < |
| 2.2 | EPA TO-11 | 5 | ppb | .0000634 | .00000849 | .000000064 |
| 2.13 | EPA TO-11 | 9.65 | ppb | .000077 | .0000123 | .0000003 |
| 2.11 | EPA TO-11 | ND | ppb | << | .00000293 | << |
| 2.9 | EPA TO-11 | ND | ppb | << | .00000293 | << |
| 2.16 | EPA TO-11 | ND | ppb | << | .00000215 | << |
| 2.8 | EPA TO-11 | 9.2 | ppb | < | .0000503 | < |
| 2.15 | EPA TO-11 | 1 | ppb | < | .00000588 | < |
| 2.1 | EPA TO-11 | ND | ppb | << | .0000118 | << |
| 2.4 | EPA TO-11 | 3.8 | ppb | .0000482 | .00000646 | .0000000438 |
| 2.5 | EPA TO-11 | ND | ppb | << | .00000338 | << |
| 2.14 | EPA TO-11 | 15.6 | ppb | .000124 | .0000203 | .000000386 |
| 2.6 | EPA TO-11 | ND | ppb | << | .00000465 | << |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|-----------------------------|-----------|--------|---------------|----------|-----------|------------|
| 2.17 | EPA TO-11 | 14.8 | ppb | .0000775 | .0000201 | .000000485 |
| | | | Average: | .0000386 | .00000758 | .000000125 |
| | | | Total: | .000656 | .000129 | .00000213 |
| Benzene | | | | | | |
| 2.13 | CARB 422 | 106 | ppb | .00117 | .000186 | .00000458 |
| 2.1 | CARB 422 | 190 | ppb | .0078 | .00089 | .0000052 |
| 2.11 | CARB 422 | 108 | ppb | .00111 | .000393 | .0000037 |
| 2.10 | CARB 422 | 375 | ppb | .00383 | .00136 | .0000128 |
| 2.9 | CARB 422 | 340 | ppb | .00347 | .00123 | .0000116 |
| 2.17 | CARB 422 | 330 | ppb | .0024 | .000623 | .000015 |
| 2.6 | CARB 422 | 24 | ppb | .000388 | .0000568 | .00000047 |
| 2.12 | CARB 422 | 90 | ppb | .000993 | .00016 | .00000443 |
| 2.8 | CARB 422 | 780 | ppb | .00595 | .00283 | .0000114 |
| 2.16 | CARB 422 | 335 | ppb | .00251 | .000632 | .0000157 |
| 2.2 | CARB 422 | 8.65 | ppb | < | .000152 | < |
| | | | | | .0000204 | < |
| 2.7 | CARB 422 | 545 | ppb | .00308 | .00198 | .00000588 |
| 2.5 | CARB 422 | 115 | ppb | .00136 | .000272 | .00000164 |
| 2.15 | CARB 422 | 295 | ppb | .00242 | .000556 | .0000217 |
| 2.14 | CARB 422 | 119 | ppb | .00131 | .000215 | .00000409 |
| 2.4 | CARB 422 | ND | ppb | << | .0000149 | << |
| | | | | | .00000101 | |
| 2.3 | CARB 422 | 7.7 | ppb | < | .000136 | < |
| | | | | | .0000182 | < |
| | | | Average: | .00225 | .000673 | .00000698 |
| | | | Total: | .0382 | .0114 | .000119 |
| Carbon tetrachloride | | | | | | |
| 2.12 | CARB 422 | ND | ppb | << | .0000349 | << |
| | | | | | .00000559 | << |
| 2.5 | CARB 422 | ND | ppb | << | .0000372 | << |
| | | | | | .00000748 | << |
| 2.11 | CARB 422 | ND | ppb | << | .0000323 | << |
| | | | | | .0000115 | << |
| 2.2 | CARB 422 | ND | ppb | << | .0000558 | << |
| | | | | | .00000748 | << |
| 2.1 | CARB 422 | ND | ppb | << | .00013 | << |
| | | | | | .0000148 | << |
| 2.17 | CARB 422 | ND | ppb | << | .0000229 | << |
| | | | | | .00000596 | << |
| 2.6 | CARB 422 | ND | ppb | << | .0000511 | << |
| | | | | | .00000748 | << |
| 2.9 | CARB 422 | ND | ppb | << | .0000323 | << |
| | | | | | .0000115 | << |
| 2.8 | CARB 422 | ND | ppb | << | .0000241 | << |
| | | | | | .0000115 | << |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|------------------------|----------|--------|---------------|----|-----------------|----|-----------------|----|--------------------|
| 2.3 | CARB 422 | ND | ppb | << | .00000558 | << | .000000748 | << | .0000000056 |
| 2.15 | CARB 422 | ND | ppb | << | .000026 | << | .00000596 | << | .000000232 |
| 2.10 | CARB 422 | ND | ppb | << | .0000323 | << | .0000115 | << | .000000108 |
| 2.4 | CARB 422 | ND | ppb | << | .0000558 | << | .00000748 | << | .0000000507 |
| 2.14 | CARB 422 | ND | ppb | << | .0000347 | << | .0000057 | << | .000000108 |
| 2.7 | CARB 422 | ND | ppb | << | .0000179 | << | .0000115 | << | .0000000341 |
| 2.13 | CARB 422 | ND | ppb | << | .0000351 | << | .00000559 | << | .000000137 |
| 2.16 | CARB 422 | ND | ppb | << | .0000237 | << | .00000596 | << | .000000148 |
| Average: | | | | | .0000383 | | .0000081 | | .0000000961 |
| Total: | | | | | .000652 | | .000138 | | .00000163 |
| Chloroform | | | | | | | | | |
| 2.4 | CARB 422 | ND | ppb | << | .000111 | << | .0000149 | << | .000000101 |
| 2.10 | CARB 422 | ND | ppb | << | .0000642 | << | .0000228 | << | .000000214 |
| 2.8 | CARB 422 | ND | ppb | << | .0000479 | << | .0000228 | << | .0000000912 |
| 2.9 | CARB 422 | ND | ppb | << | .0000642 | << | .0000228 | << | .000000214 |
| 2.11 | CARB 422 | ND | ppb | << | .0000642 | << | .0000228 | << | .000000214 |
| 2.2 | CARB 422 | ND | ppb | << | .000111 | << | .0000149 | << | .000000112 |
| 2.14 | CARB 422 | ND | ppb | << | .0000689 | << | .0000113 | << | .000000215 |
| 2.15 | CARB 422 | ND | ppb | << | .0000516 | << | .0000119 | << | .000000461 |
| 2.13 | CARB 422 | ND | ppb | << | .0000697 | << | .0000111 | << | .000000272 |
| 2.17 | CARB 422 | ND | ppb | << | .0000456 | << | .0000119 | << | .000000285 |
| 2.7 | CARB 422 | ND | ppb | << | .0000355 | << | .0000228 | << | .0000000676 |
| 2.6 | CARB 422 | ND | ppb | << | .000102 | << | .0000149 | << | .000000123 |
| 2.1 | CARB 422 | ND | ppb | << | .000258 | << | .0000294 | << | .000000172 |
| 2.16 | CARB 422 | ND | ppb | << | .0000471 | << | .0000119 | << | .000000294 |
| 2.12 | CARB 422 | ND | ppb | << | .0000694 | << | .0000111 | << | .00000031 |
| 2.5 | CARB 422 | ND | ppb | << | .000074 | << | .0000149 | << | .0000000895 |
| 2.3 | CARB 422 | ND | ppb | << | .000111 | << | .0000149 | << | .000000112 |
| Average: | | | | | .0000821 | | .0000169 | | .000000197 |
| Total: | | | | | .0014 | | .000287 | | .00000335 |
| Dichlorobenzene | | | | | | | | | |
| 2.1 | CARB 422 | 1.8 | ppb | | .00014 | | .0000159 | | .000000093 |
| 2.5 | CARB 422 | 3.8 | ppb | | .0000846 | | .000017 | | .000000102 |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|---------------------------|----------|--------|---------------|----------------|-----------------|-------------------|
| 2.6 | CARB 422 | 16 | ppb | .000488 | .0000714 | .00000059 |
| 2.15 | CARB 422 | 12.6 | ppb | < | .000196 | < |
| 2.10 | CARB 422 | ND | ppb | << | .0000635 | << |
| 2.9 | CARB 422 | ND | ppb | << | .0000635 | << |
| 2.7 | CARB 422 | 6.35 | ppb | | .0000677 | |
| 2.14 | CARB 422 | ND | ppb | << | .0000682 | << |
| 2.2 | CARB 422 | ND | ppb | << | .00011 | << |
| 2.16 | CARB 422 | 7.15 | ppb | < | .000101 | < |
| 2.12 | CARB 422 | 3.55 | ppb | | .000074 | |
| 2.13 | CARB 422 | 2.4 | ppb | < | .0000502 | < |
| 2.3 | CARB 422 | ND | ppb | << | .00011 | << |
| 2.8 | CARB 422 | ND | ppb | << | .0000474 | << |
| 2.11 | CARB 422 | ND | ppb | << | .0000635 | << |
| 2.17 | CARB 422 | 5.15 | ppb | < | .0000704 | < |
| 2.4 | CARB 422 | ND | ppb | << | .00011 | << |
| Average: | | | | .000112 | .0000236 | .000000325 |
| Total: | | | | .00191 | .000402 | .00000552 |
| Ethylene dibromide | | | | | | |
| 2.9 | CARB 422 | ND | ppb | << | .0000317 | << |
| 2.16 | CARB 422 | ND | ppb | << | .0000232 | << |
| 2.12 | CARB 422 | ND | ppb | << | .0000343 | << |
| 2.4 | CARB 422 | ND | ppb | << | .0000547 | << |
| 2.1 | CARB 422 | ND | ppb | << | .000127 | << |
| 2.11 | CARB 422 | ND | ppb | << | .0000317 | << |
| 2.15 | CARB 422 | ND | ppb | << | .0000255 | << |
| 2.7 | CARB 422 | ND | ppb | << | .0000175 | << |
| 2.13 | CARB 422 | ND | ppb | << | .0000344 | << |
| 2.5 | CARB 422 | ND | ppb | << | .0000365 | << |
| 2.2 | CARB 422 | ND | ppb | << | .0000674 | << |
| 2.10 | CARB 422 | ND | ppb | << | .0000317 | << |
| 2.17 | CARB 422 | ND | ppb | << | .0000225 | << |
| 2.6 | CARB 422 | ND | ppb | << | .0000501 | << |
| 2.8 | CARB 422 | ND | ppb | << | .0000236 | << |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|----------------------------|-----------|--------|-----------------|----|----------|-----------------|------------------|----|-------------------|
| 2.14 | CARB 422 | ND | ppb | << | .000034 | << | .0000056 | << | .000000106 |
| 2.3 | CARB 422 | ND | ppb | << | .0000547 | << | .00000734 | << | .0000000553 |
| | | | Average: | | | .0000412 | .00000841 | | .000000098 |
| | | | Total: | | | .0007 | .000143 | | .00000167 |
| Ethylene dichloride | | | | | | | | | |
| 2.1 | CARB 422 | ND | ppb | << | .000128 | << | .0000146 | << | .0000000853 |
| 2.8 | CARB 422 | ND | ppb | << | .0000237 | << | .0000113 | << | .0000000451 |
| 2.17 | CARB 422 | ND | ppb | << | .0000226 | << | .00000587 | << | .000000141 |
| 2.14 | CARB 422 | ND | ppb | << | .0000341 | << | .00000561 | << | .000000107 |
| 2.12 | CARB 422 | ND | ppb | << | .0000344 | << | .00000551 | << | .000000154 |
| 2.3 | CARB 422 | ND | ppb | << | .00011 | << | .0000147 | << | .000000111 |
| 2.11 | CARB 422 | ND | ppb | << | .0000318 | << | .0000113 | << | .000000106 |
| 2.13 | CARB 422 | ND | ppb | << | .0000345 | << | .00000551 | << | .000000135 |
| 2.9 | CARB 422 | ND | ppb | << | .0000318 | << | .0000113 | << | .000000106 |
| 2.2 | CARB 422 | ND | ppb | << | .00011 | << | .0000147 | << | .000000111 |
| 2.10 | CARB 422 | ND | ppb | << | .0000318 | << | .0000113 | << | .000000106 |
| 2.5 | CARB 422 | ND | ppb | << | .0000366 | << | .00000736 | << | .0000000443 |
| 2.15 | CARB 422 | ND | ppb | << | .0000256 | << | .00000587 | << | .000000229 |
| 2.4 | CARB 422 | ND | ppb | << | .00011 | << | .0000147 | << | .0000001 |
| 2.16 | CARB 422 | ND | ppb | << | .0000233 | << | .00000587 | << | .000000146 |
| 2.6 | CARB 422 | ND | ppb | << | .0000503 | << | .00000736 | << | .0000000608 |
| 2.7 | CARB 422 | ND | ppb | << | .0000176 | << | .0000113 | << | .0000000335 |
| | | | Average: | | | .0000504 | .00000966 | | .000000107 |
| | | | Total: | | | .000856 | .000164 | | .00000182 |
| Formaldehyde | | | | | | | | | |
| 2.6 | EPA TO-11 | 1610 | ppb | | .01 | | .00147 | | .0000122 |
| 2.7 | EPA TO-11 | 1240 | ppb | | .00269 | | .00172 | | .00000512 |
| 2.1 | EPA TO-11 | 994 | ppb | | .0157 | | .00179 | | .0000104 |
| 2.12 | EPA TO-11 | 2500 | ppb | | .0106 | | .0017 | | .0000476 |
| 2.2 | EPA TO-11 | 49.4 | ppb | | .000336 | | .000045 | | .000000338 |
| 2.4 | EPA TO-11 | 18.6 | ppb | < | .000126 | < | .000017 | < | .000000115 |
| 2.3 | EPA TO-11 | 28.4 | ppb | < | .000193 | < | .0000258 | < | .000000195 |
| 2.11 | EPA TO-11 | 17.8 | ppb | | .0000698 | | .0000247 | | .000000232 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | lb/MMBtu | lb/hr-HP |
|---------------------------|-----------|--------|---------------|----------|----------|----------|-------------|
| 2.10 | EPA TO-11 | 9.65 | ppb | | .0000379 | .0000135 | .000000126 |
| 2.5 | EPA TO-11 | 1060 | ppb | | .00478 | .000962 | .00000578 |
| 2.9 | EPA TO-11 | 2150 | ppb | | .00845 | .003 | .0000282 |
| 2.16 | EPA TO-11 | 1660 | ppb | | .00479 | .0012 | .00003 |
| 2.13 | EPA TO-11 | 2290 | ppb | | .00976 | .00156 | .0000382 |
| 2.15 | EPA TO-11 | 2120 | ppb | | .00669 | .00154 | .0000597 |
| 2.8 | EPA TO-11 | 1210 | ppb | | .00354 | .00169 | .00000676 |
| 2.17 | EPA TO-11 | 876 | ppb | | .00244 | .000636 | .0000152 |
| 2.14 | EPA TO-11 | 816 | ppb | | .00344 | .000566 | .0000108 |
| | | | | Average: | .00492 | .00106 | .0000159 |
| | | | | Total: | .0836 | .018 | .000271 |
| Methylene chloride | | | | | | | |
| 2.14 | CARB 422 | 15.5 | ppb | | .000185 | .0000304 | .000000578 |
| 2.6 | CARB 422 | 24.5 | ppb | | .000432 | .0000632 | .000000522 |
| 2.13 | CARB 422 | 34 | ppb | | .000411 | .0000656 | .0000016 |
| 2.12 | CARB 422 | 30 | ppb | | .000361 | .0000579 | .00000162 |
| 2.5 | CARB 422 | 18.5 | ppb | | .000238 | .0000477 | .000000287 |
| 2.10 | CARB 422 | ND | ppb | << | .0000646 | << | .0000229 << |
| 2.8 | CARB 422 | 37 | ppb | | .000308 | .000146 | .000000586 |
| 2.4 | CARB 422 | 50.5 | ppb | | .000974 | .00013 | .000000884 |
| 2.17 | CARB 422 | 24.5 | ppb | | .000194 | .0000504 | .00000121 |
| 2.9 | CARB 422 | 9.7 | ppb | | .000108 | .0000383 | .00000036 |
| 2.15 | CARB 422 | 24.5 | ppb | | .000219 | .0000504 | .00000196 |
| 2.16 | CARB 422 | 17 | ppb | | .000139 | .000035 | .000000869 |
| 2.1 | CARB 422 | 20 | ppb | | .000894 | .000102 | .000000596 |
| 2.3 | CARB 422 | 7.4 | ppb | < | .000142 | < | .0000191 < |
| 2.11 | CARB 422 | ND | ppb | << | .0000646 | << | .0000229 << |
| 2.2 | CARB 422 | 8.4 | ppb | < | .000162 | < | .0000217 < |
| 2.7 | CARB 422 | 28 | ppb | | .000172 | .00011 | .000000328 |
| | | | | Average: | .000298 | .0000596 | .000000714 |
| | | | | Total: | .00507 | .00101 | .0000121 |
| Styrene | | | | | | | |
| 2.1 | CARB 422 | ND | ppb | << | .000257 | << | .0000294 << |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | lb/hr-HP |
|-----------------|----------|--------|---------------|----------------|-----------------|-------------------|
| 2.5 | CARB 422 | 14 | ppb | .00022 | .0000442 | .000000266 |
| 2.17 | CARB 422 | 10.7 | ppb | .000103 | .000027 | .000000646 |
| 2.15 | CARB 422 | 4.5 | ppb | .0000493 | .0000114 | .00000044 |
| 2.16 | CARB 422 | 7.25 | ppb | .0000725 | .0000182 | .000000453 |
| 2.3 | CARB 422 | 7.85 | ppb | < | .000185 | < |
| 2.4 | CARB 422 | ND | ppb | << | .000111 | << |
| 2.8 | CARB 422 | ND | ppb | << | .0000478 | << |
| 2.9 | CARB 422 | ND | ppb | << | .000064 | << |
| 2.10 | CARB 422 | ND | ppb | << | .000064 | << |
| 2.13 | CARB 422 | 15.5 | ppb | .00023 | .0000366 | .000000898 |
| 2.7 | CARB 422 | 10 | ppb | .0000758 | .0000486 | .000000144 |
| 2.12 | CARB 422 | 13 | ppb | .000192 | .0000307 | .000000855 |
| 2.2 | CARB 422 | ND | ppb | << | .000111 | << |
| 2.11 | CARB 422 | ND | ppb | << | .000064 | << |
| 2.14 | CARB 422 | 5.55 | ppb | .0000811 | .0000134 | .000000254 |
| 2.6 | CARB 422 | 17.5 | ppb | .000378 | .0000552 | .000000456 |
| Average: | | | | .000136 | .0000271 | .000000336 |
| Total: | | | | .00231 | .00046 | .00000571 |

Tetrachloroethylene

| | | | | | | | | | |
|------|----------|----|-----|----|----------|----|----------|----|-------------|
| 2.3 | CARB 422 | ND | ppb | << | .000113 | << | .0000151 | << | .000000114 |
| 2.5 | CARB 422 | ND | ppb | << | .0000752 | << | .0000151 | << | .0000000909 |
| 2.2 | CARB 422 | ND | ppb | << | .000113 | << | .0000151 | << | .000000114 |
| 2.4 | CARB 422 | ND | ppb | << | .000113 | << | .0000151 | << | .000000103 |
| 2.1 | CARB 422 | ND | ppb | << | .000262 | << | .0000299 | << | .000000175 |
| 2.13 | CARB 422 | ND | ppb | << | .0000709 | << | .0000113 | << | .000000277 |
| 2.17 | CARB 422 | ND | ppb | << | .0000463 | << | .0000121 | << | .000000289 |
| 2.10 | CARB 422 | ND | ppb | << | .0000652 | << | .0000232 | << | .000000217 |
| 2.16 | CARB 422 | ND | ppb | << | .0000479 | << | .0000121 | << | .000000299 |
| 2.11 | CARB 422 | ND | ppb | << | .0000652 | << | .0000232 | << | .000000217 |
| 2.15 | CARB 422 | ND | ppb | << | .0000525 | << | .0000121 | << | .000000469 |
| 2.14 | CARB 422 | ND | ppb | << | .00007 | << | .0000115 | << | .000000219 |
| 2.8 | CARB 422 | ND | ppb | << | .0000487 | << | .0000232 | << | .0000000928 |
| 2.7 | CARB 422 | ND | ppb | << | .0000361 | << | .0000232 | << | .0000000688 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP | |
|--------------------------|---------|----------|---------------|----------|-------|----------|----------|----------|----------|-------------|
| | 2.12 | CARB 422 | ND | ppb | << | .0000706 | << | .0000113 | << | .000000315 |
| | 2.6 | CARB 422 | ND | ppb | << | .000103 | << | .0000151 | << | .000000125 |
| | 2.9 | CARB 422 | ND | ppb | << | .0000652 | << | .0000232 | << | .000000217 |
| | | | | Average: | | .0000834 | | .0000172 | | .0000002 |
| | | | | Total: | | .00142 | | .000292 | | .0000034 |
| Toluene | | | | | | | | | | |
| | 2.9 | CARB 422 | 74 | ppb | | .000892 | | .000317 | | .00000297 |
| | 2.10 | CARB 422 | 83.5 | ppb | | .001 | | .000358 | | .00000334 |
| | 2.3 | CARB 422 | 17 | ppb | | .000354 | | .0000474 | | .000000358 |
| | 2.11 | CARB 422 | 13 | ppb | | .000157 | | .0000556 | | .000000523 |
| | 2.13 | CARB 422 | 36 | ppb | | .000471 | | .0000752 | | .00000184 |
| | 2.2 | CARB 422 | 13.5 | ppb | | .000281 | | .0000377 | | .000000284 |
| | 2.14 | CARB 422 | 34 | ppb | | .00044 | | .0000724 | | .00000138 |
| | 2.15 | CARB 422 | 140 | ppb | | .00136 | | .000312 | | .0000121 |
| | 2.1 | CARB 422 | 66.5 | ppb | | .00322 | | .000368 | | .00000214 |
| | 2.16 | CARB 422 | 91 | ppb | | .000805 | | .000202 | | .00000503 |
| | 2.17 | CARB 422 | 76.5 | ppb | | .000655 | | .00017 | | .0000041 |
| | 2.12 | CARB 422 | 75 | ppb | | .000978 | | .000156 | | .00000437 |
| | 2.7 | CARB 422 | 290 | ppb | | .00193 | | .00124 | | .00000368 |
| | 2.5 | CARB 422 | 305 | ppb | | .00424 | | .000852 | | .00000512 |
| | 2.4 | CARB 422 | 5.7 | ppb | < | .000119 | < | .0000159 | < | .000000108 |
| | 2.8 | CARB 422 | 160 | ppb | | .00144 | | .000685 | | .00000274 |
| | 2.6 | CARB 422 | 90 | ppb | | .00172 | | .000251 | | .00000208 |
| | | | | Average: | | .00118 | | .000307 | | .00000307 |
| | | | | Total: | | .0201 | | .00522 | | .0000522 |
| Trichloroethylene | | | | | | | | | | |
| | 2.11 | CARB 422 | ND | ppb | << | .0000637 | << | .0000226 | << | .000000212 |
| | 2.7 | CARB 422 | ND | ppb | << | .0000353 | << | .0000226 | << | .0000000672 |
| | 2.13 | CARB 422 | ND | ppb | << | .0000693 | << | .000011 | << | .000000271 |
| | 2.12 | CARB 422 | ND | ppb | << | .000069 | << | .000011 | << | .000000308 |
| | 2.9 | CARB 422 | ND | ppb | << | .0000637 | << | .0000226 | << | .000000212 |
| | 2.3 | CARB 422 | ND | ppb | << | .00011 | << | .0000148 | << | .000000111 |
| | 2.1 | CARB 422 | ND | ppb | << | .000256 | << | .0000292 | << | .000000171 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | | lb/MMBtu | | lb/hr-HP |
|----------------------------|----------|--------|---------------|----|-----------------|----|-----------------|----|-------------------|
| 2.8 | CARB 422 | ND | ppb | << | .0000475 | << | .0000226 | << | .0000000905 |
| 2.6 | CARB 422 | ND | ppb | << | .000101 | << | .0000148 | << | .000000122 |
| 2.17 | CARB 422 | ND | ppb | << | .0000453 | << | .0000118 | << | .000000283 |
| 2.5 | CARB 422 | ND | ppb | << | .0000735 | << | .0000148 | << | .0000000889 |
| 2.16 | CARB 422 | ND | ppb | << | .0000468 | << | .0000118 | << | .000000292 |
| 2.4 | CARB 422 | ND | ppb | << | .00011 | << | .0000148 | << | .0000001 |
| 2.15 | CARB 422 | ND | ppb | << | .0000513 | << | .0000118 | << | .000000458 |
| 2.10 | CARB 422 | ND | ppb | << | .0000637 | << | .0000226 | << | .000000212 |
| 2.14 | CARB 422 | ND | ppb | << | .0000684 | << | .0000113 | << | .000000214 |
| 2.2 | CARB 422 | ND | ppb | << | .00011 | << | .0000148 | << | .000000111 |
| Average: | | | | | .0000814 | | .0000168 | | .000000196 |
| Total: | | | | | .00138 | | .000285 | | .00000332 |
| Vinyl chloride | | | | | | | | | |
| 2.5 | CARB 422 | ND | ppb | << | .0000746 | << | .000015 | << | .0000000902 |
| 2.6 | CARB 422 | ND | ppb | << | .000102 | << | .000015 | << | .000000123 |
| 2.13 | CARB 422 | ND | ppb | << | .0000703 | << | .0000112 | << | .000000275 |
| 2.12 | CARB 422 | ND | ppb | << | .00007 | << | .0000112 | << | .000000312 |
| 2.14 | CARB 422 | ND | ppb | << | .0000694 | << | .0000114 | << | .000000217 |
| 2.2 | CARB 422 | ND | ppb | << | .000112 | << | .000015 | << | .000000113 |
| 2.15 | CARB 422 | 12.5 | ppb | | .0000823 | | .000019 | | .000000734 |
| 2.1 | CARB 422 | ND | ppb | << | .00026 | << | .0000296 | << | .000000173 |
| 2.16 | CARB 422 | ND | ppb | << | .0000475 | << | .000012 | << | .000000297 |
| 2.17 | CARB 422 | ND | ppb | << | .0000459 | << | .000012 | << | .000000287 |
| 2.11 | CARB 422 | ND | ppb | << | .0000647 | << | .000023 | << | .000000216 |
| 2.4 | CARB 422 | ND | ppb | << | .000112 | << | .000015 | << | .000000102 |
| 2.3 | CARB 422 | ND | ppb | << | .000112 | << | .000015 | << | .000000113 |
| 2.9 | CARB 422 | ND | ppb | << | .0000647 | << | .000023 | << | .000000216 |
| 2.8 | CARB 422 | ND | ppb | << | .0000482 | << | .000023 | << | .0000000918 |
| 2.10 | CARB 422 | ND | ppb | << | .0000647 | << | .000023 | << | .000000216 |
| 2.7 | CARB 422 | ND | ppb | << | .0000358 | << | .000023 | << | .0000000682 |
| Average: | | | | | .0000845 | | .0000174 | | .000000214 |
| Total: | | | | | .00144 | | .000296 | | .00000364 |
| Vinylidene chloride | | | | | | | | | |

| Pollutant | Test ID | Method | Concentration | lb/hr | lb/MMBtu | | Ib/hr-HP |
|---------------|----------|--------|---------------|----------|-----------|----|------------|
| 2.4 | CARB 422 | ND | ppb | << | .000112 | << | .0000015 |
| 2.6 | CARB 422 | ND | ppb | << | .0000503 | << | .00000736 |
| 2.16 | CARB 422 | ND | ppb | << | .0000233 | << | .00000587 |
| 2.5 | CARB 422 | ND | ppb | << | .0000366 | << | .00000736 |
| 2.15 | CARB 422 | ND | ppb | << | .0000256 | << | .00000587 |
| 2.9 | CARB 422 | ND | ppb | << | .0000318 | << | .0000113 |
| 2.14 | CARB 422 | ND | ppb | << | .0000341 | << | .00000561 |
| 2.2 | CARB 422 | ND | ppb | << | .000112 | << | .000015 |
| 2.17 | CARB 422 | ND | ppb | << | .0000226 | << | .00000587 |
| 2.1 | CARB 422 | ND | ppb | << | .000128 | << | .0000146 |
| 2.8 | CARB 422 | ND | ppb | << | .0000237 | << | .0000113 |
| 2.11 | CARB 422 | ND | ppb | << | .0000318 | << | .0000113 |
| 2.3 | CARB 422 | ND | ppb | << | .000112 | << | .000015 |
| 2.13 | CARB 422 | ND | ppb | << | .0000345 | << | .00000551 |
| 2.12 | CARB 422 | ND | ppb | << | .0000344 | << | .00000551 |
| 2.7 | CARB 422 | ND | ppb | << | .0000176 | << | .0000113 |
| 2.10 | CARB 422 | ND | ppb | << | .0000318 | << | .0000113 |
| Average: | | | | .0000507 | .00000971 | | .000000107 |
| Total: | | | | .000862 | .000165 | | .00000183 |
| Xylene | | | | | | | |
| 2.16 | CARB 422 | 32.5 | ppb | .000332 | .0000833 | | .00000207 |
| 2.5 | CARB 422 | 83 | ppb | .00133 | .000267 | | .0000016 |
| 2.17 | CARB 422 | 20 | ppb | .000197 | .0000513 | | .00000123 |
| 2.1 | CARB 422 | 21 | ppb | .00117 | .000134 | | .00000078 |
| 2.15 | CARB 422 | 83 | ppb | .000927 | .000213 | | .0000083 |
| 2.14 | CARB 422 | 12.3 | ppb | .000184 | .0000302 | | .000000574 |
| 2.13 | CARB 422 | 14.5 | ppb | .000218 | .0000349 | | .000000854 |
| 2.11 | CARB 422 | ND | ppb | << | .0000639 | << | .0000227 |
| 2.2 | CARB 422 | 5.6 | ppb | .000135 | .000018 | | .000000136 |
| 2.12 | CARB 422 | 43 | ppb | .000646 | .000104 | | .00000288 |
| 2.7 | CARB 422 | 36 | ppb | .000277 | .000178 | | .000000528 |
| 2.3 | CARB 422 | 15 | ppb | .000361 | .0000484 | | .000000364 |
| 2.10 | CARB 422 | 6.65 | ppb | .0000924 | .0000328 | | .000000308 |

| Pollutant | Test ID | Method | Concentration | | lb/hr | lb/MMBtu | | lb/hr-HP |
|-----------|----------|--------|-----------------|---|----------------|----------|-----------------|------------------|
| 2.4 | CARB 422 | 5.4 | ppb | < | .00013 | < | .0000174 | < .000000118 |
| 2.9 | CARB 422 | 5.15 | ppb | | .0000715 | | .0000254 | .000000239 |
| 2.8 | CARB 422 | 14 | ppb | | .000145 | | .000069 | .000000276 |
| 2.6 | CARB 422 | 26 | ppb | | .000572 | | .0000836 | .000000691 |
| | | | Average: | | .000403 | | .0000831 | .00000124 |
| | | | Total: | | .00685 | | .00141 | .0000212 |